December 11, 2023

Mr. Stephen A. Watts
New York State Department of Environmental Conservation
Region 2
47-40 21st Street
Long Island City, New York 11101

Re: SPDES Permit Modification
Groundwater Treatment Facility Consolidation
ExxonMobil Oil Corporation
ExxonMobil Greenpoint Petroleum Remediation Project
Greenpoint, Brooklyn, New York
SPDES Permit # NY0267724

Dear Mr. Watts:

Enclosed is the State Pollutant Discharge Elimination System (SPDES) permit modification submittal for the ExxonMobil Greenpoint Petroleum Remediation Project (EMGPRP), located in Greenpoint Brooklyn, New York. This SPDES Permit Modification Package has been prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) on behalf of ExxonMobil Environmental and Property Solutions Company, on behalf of ExxonMobil Oil Corporation (collectively, "ExxonMobil"), to request a modification of the existing EMGPRP SPDES Permit No. NY0267724 (EMGPRP SPDES Permit) relative to the discharge process in order to facilitate the consolidation of the existing EMGPRP groundwater treatment facilities into one facility to be constructed at 38 Varick Street, Brooklyn, NY. As described further below, this SPDES Permit Modification Package requests approval to:

1. Commence operation of a new groundwater treatment facility that will discharge the treated effluent flow through Outfall 002; and
2. Continue operation of the existing groundwater treatment facilities, pursuant to the existing EMGPRP SPDES Permit, including discharge through the three existing outfalls (Outfall 01A, Outfall 001, Outfall 002), until such time that the new facility is fully operational.

Details regarding the proposed groundwater treatment facility and proposed process treatment train are provided below, followed by a description of the SPDES modification application and supporting documentation that are attached hereto.

Background

Groundwater is extracted from twenty, dual-pump recovery wells as part of the ongoing EMGPRP free-product recovery efforts. The groundwater from each recovery well is currently conveyed to one of two groundwater treatment facilities, including the Former Brooklyn Terminal Free-Product Recovery and Containment System (RCS) and the Off-Site Free-Product Recovery System (ORS). Discharge from each of these treatment facilities is authorized by the existing EMGPRP SPDES Permit and currently encompasses discharges from the following outfall points:

1. Outfall 01A: Treated effluent from the RCS groundwater treatment facility, located at 400 Kingsland Avenue, Brooklyn, New York;
2. Outfall 001: Combined RCS effluent and stormwater from the former ExxonMobil Brooklyn Terminal, located at 400 Kingsland Avenue, Brooklyn, New York; and

0172.0030Y093.5051/LR

3. Outfall 002: Treated effluent from the ORS groundwater treatment facility, located at 5 Bridgewater Street, Brooklyn, New York, with the Outfall 002 discharge pipe located at the northern terminus of Meeker Avenue at Newtown Creek.

A renewal application for the existing EMGPRP SPDES Permit was submitted to the New York State Department of Environmental Conservation (NYSDEC) on September 30, 2019. ExxonMobil received notification from the NYSDEC on October 4, 2019, indicating that the request for renewal is pending review and until that time, the current permit is to remain in effect in accordance with the State Administrative Procedures Act. This application supercedes the 2019 submission.

Treatment System Consolidation Project Description

As described in the Conceptual Design Report submitted to the NYSDEC, dated September 13, 2023, the existing RCS (400 Kingsland Avenue) and the ORS (5 Bridgewater Street) groundwater treatment facilities would be consolidated and replaced by a new groundwater treatment facility (consolidated treatment system or facility) located at 38 Varick Street, after which the existing RCS and ORS facilities would be deactivated and dismantled. The proposed consolidated treatment facility will be designed to process the total quantity of extracted groundwater generated by the existing recovery well network, while utilizing the same remedial technology currently processing similar quantities of groundwater at the currently active, separate RCS and ORS facilities. Instead of the total quantity of extracted groundwater being divided between the existing treatment facilities and discharged to either Outfall 001(via Outfall 01A) or Outfall 002, the combined flow from all existing recovery wells will be sent to the proposed consolidated treatment facility at 38 Varick Street for processing with final discharge to Outfall 002 (at the northern terminus of Meeker Avenue). It is expected that the overall treatment efficiency and combined treated effluent discharge quantity to Newtown Creek will remain unchanged. Following start-up of the new consolidated treatment facility, ExxonMobil's use of the other currently active outfalls (Outfall 001, and Outfall 01A) would be discontinued. Based on pre-application meetings with NYSDEC on August 9, 2023, and September 13, 2023, ExxonMobil and Roux understand that this action is considered a major SPDES permit modification by the NYSDEC.

The new consolidated groundwater treatment facility will be connected into the existing SVE system currently located at 38 Varick Street for process air treatment. The proposed treatment train is expected to include:

1. Oil / water separation;
2. Aeration to oxidize dissolved metals (iron / manganese);
3. Influent flow equalization and primary settling;
4. Sand filtration to remove oxidized metals and total suspended solids (TSS);
5. Backwash treatment to settle and remove solids from the filtration step;
6. Sludge dewatering via filter press;
7. Scale / deposit control via chemical injection;
8. Air stripping for primary volatile organic compound (VOC) / semi-volatile organic compound (SVOC) removal;
9. Effluent flow equalization;
10. Process air treatment by catalytic oxidation via the existing Flame-Ox unit; and
11. Auxiliary tanks to store and process site remediation water.

The auxilliary tanks identified above will be used for managing intermittent process streams generated during site remediation, operation, and maintenance activities, as is currently allowed for under the conditions of the existing EMGPRP SPDES Permit.

It should be noted that two groundwater extraction wells (RW-16 and RW-29) are proposed to be relocated prior to start-up of the new system. A Long Island Well permit modification will be submitted subsequent to this SPDES modification to reflect the revised locations of the groundwater extraction wells, following NYSDEC approval of the Recovery Well RW-16 and RW-29 Relocation Request Letter submitted by Roux to the NYSDEC on September 18, 2023.

Submission Outline:

The SPDES Permit modification application and supporting information attached hereto consist of the following documentation:

Attachment 1: State Pollutant Discharge Elimination System Application (Form NY-2C as requested by NYSDEC), Site map (Figure 1A), Process Flow Diagram (Figure 1B) and supporting attachments listed below:

a. Attachment 1a: Supplementary information in support of the application.
b. Attachment 1b: Supplement A – Detailed Mixing Zone Analysis Form
c. Attachment 1c: Supplement B – Discharges within Sole Source Aquifers
d. Attachment 1d: Stormwater No Exposure Form
e. Attachment 1e: Mercury Conditional Exclusion Certification
f. Attachment 1f: Water Treatment Chemical Usage Notification Forms
g. Attachment 1g: Laboratory Analytical Reports;

Attachment 2: **State Environmental Quality Review Act Submission**

a. Full Environmental Assessment Form Part 1 (EAF Long Form), including a site map (Figure 2A)
b. Full Environmental Assessment Form Part 2 (Identification of Potential Project Impacts

Attachment 3: Public Participation Plan – Draft

This SPDES Permit Modification Package includes a completed NY-2C form (Attachment 1) with the exception of Part II, Table A, Sections 2 and 3. Outfall sampling and subsequent laboratory analysis of the emerging contaminant compounds included in Section 2 and Section 3 is pending at the time of this submittal. Results will be provided in a supplemental submittal for this SPDES modification.

Should you have any questions, or comments relating to any part of this submission, please do not hesitate to reach out to us at your convinience.

Respectfully submitted,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

Courtney Lind
Senior Engineer

Justin Kennedy, P.E.
Senior Engineer

Andrew Baris, P.G.
Executive Vice President/Principal Hydrogeologist

cc: Kirsten Jedd-Barry, NYSDEC – DOW
Lorraine Gregory, NYSDEC – DOW
Caitlyn Nichols, NYSDEC – DOW
Atiqur Rahman, NYSDEC – DOW
Heidi Dudek, NYSDEC – DER
Rafi Alam, NYSDEC – DER
Deborah Gorman, NYSDEC
Michael Murphy, NYSDEC
Andrew G. Frank, New York State Office of the Attorney General
Todd Ommen, Pace University School of Law
Richard Webster, Riverkeeper
Mike Dulong, Riverkeeper
Michael Burghardt, ExxonMobil
Celeste S. Quiralte, ExxonMobil
Christopher Proce, Roux
Alexander Policastro, Roux

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Application Form NY-2C

New and Existing Industrial Facilities

State Pollutant Discharge Elimination System Permitting Program

DEC Identification Number	SPDES Permit Number	Facility Name	Form Approved: 5/12/2023
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint	

Form NY-2C PART I SPDES

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

New York State Department of Environmental Conservation
Application for SPDES Permit to Discharge Wastewater
GENERAL INFORMATION

SECTION 1. PERMIT ACTION REQUESTED

Permit Action Requested

1.1 What is the reason for submitting this application?

- ☐ A NEW proposed Discharge
- ☐ A RENEWAL of an existing permit
- ☐ An EXISTING discharge currently without permit
- ☐ An EBPS REQUEST FOR INFORMATION response
- ☑ A MODIFICATION of the existing permit (describe below)

Relocation/consolidation of existing treatment facility

1.2 Increased Discharge Request

Is this application a request for an increase in the quantity of water discharged from your facility to the waters of the State?

- ☐ Yes ➔ Describe the increase:
- ☑ No ➔ Skip to Item 2.1

SECTION 2. PERMITTEE & FACILITY NAME, LEGAL STATUS, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))

Permittee & Facility Name, Legal Status, Mailing Address, and Location

2.1 Permittee Name

ExxonMobil Oil Corporation. Att. Michael Burghardt

2.2 Permittee Mailing Address

Street or P.O. box
38 Varick Street

City or town	State	ZIP code
Brooklyn	NY	11222

2.3 Permitee Legal Status

- ☐ Public—federal
- ☐ Public—state
- ☐ Other public (specify)_____
- ☑ Private
- ☐ Other (specify) _____

2.4 Facility Name

ExxonMobil Greenpoint Petroleum Remediation Project

2.5 NYSDEC Identification Number

2-6101-00107-0026

2.6 Facility Contact

Name (first and last)	Title	Phone number
Courtney Lind	Senior Engineer	(631) 232-2600

Email address
clind@rouxinc.com

2.7 Facility Location

Street, route number, or other specific identifier
38 Varick Street

County name	County code (if known)	
Kings		

City or town	State	ZIP code
Brooklyn	NY	11222

SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))

SIC and NAICS Codes

3.1	SIC Code(s)	Description (optional)
	4959	Groundwater Treatment

3.2	NAICS Code(s)	Description (optional)
	562910	Remediation and cleanup of soil, and/or ground water

SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))

Operator Information

4.1 **Name of Operator**

Justin Kennedy, P.E.

4.2 Is the name you listed in Item 4.1 also the owner?

☐ Yes ➔ Skip to Item 5.1 ☑ No

4.3 **Operator Status**

☐ Public—federal ☐ Public—state ☐ Other public (specify)_____

☑ Private ☐ Other (specify) _____

4.4 **Phone Number of Operator**

(631) 232-2600

Operator Information Continued

4.5 **Operator Address**

Street or P.O. Box
38 Varick Street

City or town	State	ZIP code
Brooklyn	NY	11222

Email address of operator
jkennedy@rouxinc.com

SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))

Indian Land

5.1 Is the facility located on Indian Land?

☐ Yes ☑ No

SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Existing Environmental Permits

6.1 **Existing Environmental Permits** (check all that apply and print or type the corresponding permit number for each)

☑ SPDES	☐ RCRA (hazardous wastes)	☐ UIC (underground injection)
☐ PSD (air emissions)	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☑ Other (specify) See Attachment 1a

SECTION 7. MAP (40 CFR 122.21(f)(7))

Map

7.1 Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.)

☑ Yes ☐ No

SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

Nature of Business

8.1 Describe the nature of your business.

The Greenpoint Remediation project operates under the oversight of the NYSDEC, and in accordance with the requirements of the Consent Decree between the State of New York and ExxonMobil, filed on March 1, 2011, in the United States District Court, Eastern District of New York (Consent Decree). The remediation system provides petroleum hydrocarbon (free-product) recovery and groundwater treatment for a subsurface petroleum accumulation. Petroleum free-product will continue to be recovered via operation of dual-pump liquid extraction (DPLE) recovery wells. and then conveyed to an operating groundwater treatment facility for treatment. Following treatment, the groundwater will be conveyed to the discharge Outfall within Newtown Creek, Outfall 002.

SECTION 9. WATER SUPPLY & COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

Water Supply Source(s)

9.1 What water supply source(s) does your facility use? Identify the name or owner of each source. (check all that apply)

☐ Municipal ☐ Private Intake ☐ Private Well ☑ Other (specify)

Owner: _____ _____ _____ ExxonMobil Recovery wells

9.2 Provide the amount of water typically consumed from each of these sources.

Municipal	MGD	Private Well		MGD
Private Intake	MGD	Other	750.00	MGD

9.3 Is the facility located within a sole source aquifer as shown on Exhibit 2C-6?

☑ Yes ➔Complete Application Supplement B (see SPDES website) ☐ No

Cooling Water Intake Structures

9.4 Does your facility use any of these water sources for cooling water?

☐ Yes ☑ No ➔SKIP to Item 10.1.

9.5 Identify the sources used for cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J and NYSDEC Commisioner's Policy 52 (CP-52) may have additional application requirements. Consult with NYSDEC to determine if additional information is needed.)

Thermal Discharges

9.6 If your industry group is listed (see instructions), or the temperature of your discharge exceeds the receiving water temperature by greater than 3°F, provide the following data in (°F):

Avg. Temp. Max Temp. Avg. Delta T Max Delta T

SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))

Variance Requests

10.1 Do you intend to request or renew one or more variances pursuant to 6 NYCRR 702.17 or authorized at 40 CFR 122.21(m)? (Check all that apply). Consult with NYSDEC to determine what information is needed.

☐ Fundamentally different factors (CWA Section 301(n))

☐ Water quality related effluent limitations (CWA Section 302(b)(2))

☐ Non-conventional pollutants (CWA Section 301(c) and (g))

☐ Thermal discharges (CWA Section 316(a))

☐ NYS WQBEL (6 NYCRR 702.17)

☑ Not applicable

SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Part I Checklist

11.1 In Column 1 below, mark the sections of Form NY-2C Part I that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert NYSDEC. Note that not all applicants are required to provide attachments.

Column 1	Column 2
☑ Section 1: Permit Action Requested	☐ w/ attachments
☑ Section 2: Name, Mailing Address, and Location	☐ w/ attachments
☑ Section 3: SIC Codes	☐ w/ attachments
☑ Section 4: Operator Information	☐ w/ attachments
☑ Section 5: Indian Land	☐ w/ attachments
☑ Section 6: Existing Environmental Permits	☑ w/ attachments
☑ Section 7: Map	☑ w/ topographic map ☐ w/ additional attachments
☑ Section 8: Nature of Business	☐ w/ attachments
☑ Section 9: Water Supply & CWIS	☐ w/ attachments ☑ w/ Sole Source Aquifer Supplement
☑ Section 10: Variance Requests	☐ w/ attachments
☑ Section 11: Checklist	☐ w/ attachments

PART II of Form NY-2C begins on the next page.

DEC Identification Number	SPDES Permit Number	Facility Name	Form Approved: 5/12/2023
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint	

Form NY-2C PART II SPDES

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

New York State Department of Environmental Conservation Application for SPDES Permit to Discharge Wastewater

NEW AND EXISTING INDUSTRIAL OPERATIONS DETAILED INFORMATION

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1)) & RECEIVING WATER DESCRIPTION (6 NYCRR 750-1.7(a))

Outfall Location & Receiving Water Description

1.1 Provide information on each of the facility's outfalls and the receiving waters in the table below.

	Outfall _____	Outfall _____	Outfall _____
Latitude	40 ° 43 ′ 41.1″ N	° ′ ″	° ′ ″
Longitude	73 ° 55 ′ 56.1″ W	° ′ ″	° ′ ″
Receiving Water Name	Newtown Creek		
Water Index Number (WIN)	(MW2.1) ER-LI- 4		
Waterbody Inventory/ Priority Waterbodies List (WI/PWL) Segment	1702-0002		
Water Classification	SD		
Groundwater Discharges Only:			
Soil Type			
Depth to Water Table	ft	ft	ft

SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))

Line Drawing

2.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C–3 at end of instructions for example.)

☑ Yes ☐ No

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))

Average Flows and Treatment

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.

****Outfall Number**** 002

Operations Contributing to Flow

Operation	Average Flow	Maximum Flow
Remediation System Discharge	1.08 MGD	1.30 MGD
	MGD	MGD
	MGD	MGD
	MGD	MGD

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
See Supplemental information following application		

Average Flows and Treatment Continued

3.1 cont.

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow	Maximum Flow
	MGD	MGD
	MGD	MGD
	MGD	MGD
	MGD	MGD

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow	Maximum Flow
	MGD	MGD
	MGD	MGD
	MGD	MGD
	MGD	MGD

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

WTCs

3.2 Does the facility utilize or plan to utilize any water treatment chemicals that can potentially be discharged from one or more outfalls?

☑ Yes ➔ Complete Table F ☐ No ➔ SKIP to Item 3.3.

Mixing Zone Form

3.3 Has a Mixing Zone Analysis Form been completed and attached? All applicants must complete at least the Simple Form for each wastewater outfall to surface waters. Indicate which form was completed and is attached to this application.

☐ Yes ➔ Simple Form ☑ Yes ➔ Detailed Form

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))

Intermittent Flows

4.1 Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal?

☐ Yes ☑ No ➔ SKIP to Section 5.

4.2 Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.

Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
		Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
		days/week	months/year	MGD	MGD	days
		days/week	months/year	MGD	MGD	days
		days/week	months/year	MGD	MGD	days
		days/week	months/year	MGD	MGD	days
		days/week	months/year	MGD	MGD	days
		days/week	months/year	MGD	MGD	days
		days/week	months/year	MGD	MGD	days
		days/week	months/year	MGD	MGD	days
		days/week	months/year	MGD	MGD	days

SECTION 5. PRODUCTION (40 CFR 122.21(g)(5))

Applicable ELGs

5.1 Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility?

☐ Yes ☑ No ➔ SKIP to Item 5.5.

5.2 Provide the following information on applicable ELGs.

ELG Category	ELG Subcategory	Regulatory Citation

Production-Based Limitations

5.3 Are any of the applicable ELGs expressed in terms of production (or other measure of operation)?

☐ Yes ☐ No ➔ SKIP to Item 5.5.

5.4 Provide an actual measure of daily production expressed in terms and units of applicable ELGs.

Outfall Number	Operation, Product, or Material	Quantity per Day	Unit of Measure

Specific Industry

5.5 Is your industry type listed as a specific industry requiring submission of a supplemental application form (see instructions)?

☐ Yes, supplemental form attached ☑ No ➔ SKIP to Section 6.

SECTION 6. SCHEDULED IMPROVEMENTS (40 CFR 122.21(g)(6))

Upgrades and Improvements

6.1 Are you presently voluntarily improving or required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?

☐ Yes ☑ No ➔ SKIP to Item 6.3.

6.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

6.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? *(optional item)*

☐ Yes ☑ No ☐ Not applicable

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(g)(7))

Effluent and Intake Characteristics

See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.

Table A. Conventional and Non-Conventional Pollutants

7.1 Are you requesting a waiver from NYSDEC for one or more of the Table A pollutants for any of your outfalls?

☐ Yes ☑ No ➔ SKIP to Item 7.3.

7.2 If yes, indicate the applicable outfalls below. Attach waiver request and other required information to the application.

Outfall Number _____ Outfall Number _____ Outfall Number _____

7.3 Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?

☑ Yes ☐ No;a waiver request has been attached for all pollutants at all outfalls.

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants

7.4 Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-5?

☐ Yes ☑ No ➔SKIP to Item 7.8.

7.5 Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?

☐ Yes ☐ No

7.6 List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-5.

Primary Industry Category	Required GC/MS Fraction(s) (Check applicable boxes.)
	☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide

Effluent and Intake Characteristics Continued

7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☐ Yes ☐ No
7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☑ Yes ☐ No
7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☑ Yes ☐ No
7.10	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☑ Yes ☐ No
Table C. Certain Conventional and Non-Conventional Pollutants	
7.11	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? ☑ Yes ☐ No
7.12	Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an ELG and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☑ Yes ☐ No
Table D. Certain Hazardous Substances and Asbestos	
7.13	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☑ Yes ☐ No
7.14	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available? ☑ Yes ☐ No
Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)	
7.15	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes ➔ Complete Table E. ☑ No ➔ SKIP to Section 8.
7.16	Have you completed Table E by reporting *qualitative* data for TCDD? ☐ Yes ☑ No

SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(g)(9))

Used or Manufactured Toxics

8.1	Are any other pollutants, substances, or components of substances, not already listed in Tables A-E, used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☑ No ➔ SKIP to Section 9.		
8.2	List the pollutants below.		
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(g)(11))

Biological Toxicity Tests

9.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) on a receiving water in relation to your discharge?

☐ Yes ☑ No ➔ SKIP to Section 10.

9.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NYSDEC?	Date Submitted
		☐ Yes ☐ No	
		☐ Yes ☐ No	
		☐ Yes ☐ No	

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(g)(12))

Contract Analyses

10.1 Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm?

☑ Yes ☐ No ➔ SKIP to Section 11.

10.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Eurofins Lancaster Laboratories, Inc.		
ELAP Cert No.	10670		
Laboratory address	2425 New Holland Pike Lancaster, PA 17601		
Phone number	(717) 656-2300		
Pollutant(s) analyzed	VOCs, SVOCs, Metals, General Chemisty, Wet Chemistry		

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(g)(13))

Additional Information

11.1 Does your facility use, produce, store, distribute, or otherwise dispose of any significant quantity of substances listed in Tables B, C, D, E or those substances identified in Item 8.2?

☐ Yes ➔ Complete Table G. ☑ No ➔ SKIP to Item 11.2.

11.2 Does your facility utilize pumping stations to convey wastewaters on the site and/or in wastewater treatment?

☐ Yes ➔ Complete Table H. ☑ No ➔ SKIP to Item 11.3.

11.3 Has NYSDEC requested additional information?

☐ Yes ☑ No ➔ SKIP to Section 12.

11.4 List the information requested and attach it to this application.

1.	3.
2.	4.

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

12.1 In Column 1 below, mark the sections of Form NY-2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert NYSDEC. Note that not all applicants are required to complete all sections or provide attachments.

Column 1	Column 2
☑ Section 1: Outfall Location	☐ w/ attachments
☑ Section 2: Line Drawing	☑ w/ line drawing ☐ w/ additional attachments
☑ Section 3: Average Flows and Treatment	☐ w/ attachments ☐ w/ Simple MZ Form ☑ w/ Table F ☑ w/ Detailed MZ Form
☑ Section 4: Intermittent Flows	☐ w/ attachments
☑ Section 5: Production	☐ w/ attachments
☑ Section 6: Improvements	☐ w/ attachments ☐ w/ optional additional sheets describing any additional pollution control plans
☑ Section 7: Effluent and Intake Characteristics	☐ w/ request for a waiver and supporting information ☐ w/ explanation for identical outfalls ☐ w/ primary industry supplemental form ☐ w/ additional attachments ☑ w/ Table A ☑ w/ Table B ☑ w/ Table C ☑ w/ Table D ☑ w/ Table E ☑ w/ analytical results as an attachment
☑ Section 8: Used or Manufactured Toxics	☐ w/ attachments
☑ Section 9: Biological Toxicity Tests	☐ w/ attachments
☑ Section 10: Contract Analyses	☐ w/ attachments
☑ Section 11: Additional Information	☐ w/ attachments ☐ w/ Table G ☐ w/ Table H
☑ Section 12: Checklist and Certification Statement	☐ w/ attachments

12.2 **Certification Statement**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (print or type first and last name)	Official title
Michael Burghardt	US East Supervisor
Signature	**Date signed**
Michael Burghardt	December 11, 2023

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TABLE F. WATER TREATMENT CHEMICAL LISTING

WTC Trade Name	Manufacturer	WTC Function	Authorized Dosage (lbs/d)		Discharge Outfall	Authorized Date	New or Increase Request (optional)
			Average	Maximum			
For all New or Increased WTCs, you must attach a completed WTC Request Form			☐ No new or increased WTC requests included as part of this application.				
Redux E50	Redux Technolog	Coagulant	18.00	48.00	002		☐New ☑Increase
Redux P-853	Redux Technolog	Flocculant	1.44	3.84	002		☐New ☑Increase
Redux 375	Redux Technolog	Minimize equipment fouling	180.00	216.00	002		☐New ☑Increase
							☐New ☐Increase
							☐New ☐Increase
							☐New ☐Increase
							☐New ☐Increase
							☐New ☐Increase
							☐New ☐Increase
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							☐New ☐Increase

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DEC Identification Number	SPDES Permit Number	Facility Name
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint

Form Approved: 5/12/2023

TABLE G. INDUSTRIAL CHEMICAL SURVEY

Complete this table for all substances that have been used, produced, stored, distributed or otherwise disposed of in significant quantity AND for any quantity of BCCs, chemicals for which FDA fish flesh limits exist, or restricted pesticide products listed in Part 326, Section 2 of the ECL. Restricted pesticides also include those products whose labeling bears the statement "Restricted Use Pesticide." Do not include chemicals that are present as *de minimus* concentrations as listed in the SDS for that substance.

For any substance listed that is used in a manner which could cause them to come into contact with a wastewater that is ultimately discharged to the waters of the State through an outfall controlled by this permit application, identify it as "Present" and the Outfall(s) by which it may be discharged. Sampling results for these pollutants should also be included with Tables B-E.

☐ A separate, but equivalent table has been attached as part of this application.

Substance Name	CAS Number	Purpose of Use Code	Average Annual Usage	Amount On Hand	Presence in Discharge	Discharge Outfall
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	
		PRO - Produced	Gal	Gal	☐Present ☐Not Present	

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TABLE H. FACILITY & COLLECTION SYSTEM RESILIENCY

Pump Station Name	PS Owner	General Location	Latitude (DMS)	Longitude (DMS)	Floor Elevation (ft, NAVD88)
Complete this table for all pump stations that exist at the wastewater treatment facility and within the collection system. Identify the name of the pump station, the owner of the pump station (if different than the SPDES permittee), the general location of the pump station (e.g. intersection of Green St. & Water St.), the latitude and longitude of the pump station in degrees-minutes-seconds (DMS) format, and the elevation in feet of the pump station floor (per the NAVD88 datum).					
☑ The wastewater treatment facility and collection system do not contain any pump stations.					
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	

TABLES

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint Petroleum Remediation Project	Outfall 01A

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii)) 1

	Pollutant	Waiver Requested (input "Yes" when applicable)	Units (specify)		Effluent: Maximum Daily Discharge (required)	Effluent: Maximum Monthly Discharge (if available)	Effluent: Long-Term Average Daily Discharge (if available)	Effluent: Number of Analyses	Intake (Optional): Long-Term Average Value	Intake (Optional): Number of Analyses
	Mark "X" in Cell A6 if you have attached a request to NYSDEC for a waiver for *all* of the pollutants listed on this table for the noted outfall.									
4										
1.	Biochemical oxygen demand (BOD5)		Concentration	µg/L	2000 U			4	1,500	4
			Mass	g	< 4088			4	3,066	4
2.	Chemical oxygen demand (COD)		Concentration	µg/L	58000 J			4	44,075	4
			Mass	g	118,546			4	90,085	4
3.	Total organic carbon (TOC)		Concentration	µg/L	6800			1	6,300	1
			Mass	g	13,899			1	12,877	1
4.	Total suspended solids (TSS)		Concentration	µg/L	2300 J			4	8,625	4
			Mass	g	4,701			4	17,629	4
5.	Ammonia (as N)		Concentration	µg/L						
			Mass	g						
6.	Flow		Rate	GPM	404			4	387	4
7.	Temperature (winter)		°C	°C	16.30			4	16.97	4
	Temperature (summer)		°C	°C	20.68			4	18.56	4
8.	pH (minimum)		Standard units	SU	7.39			4	6.95	4
	pH (maximum)		Standard units	SU	8.43			4	7.42	4
9.	Mercury[2]		Concentration	µg/L	0.2 U			4	0.1 U	4
			Mass	g	< 0.41			4	< 0.2	4

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

2 Analysis for Mercury must be performed utilizing the low-level, USEPA Method 1631

Additional Notes:

Temperature and pH were measured at the time of sampling and during lab analysis. Values are representative of field data.

U Compound was analyzed for but not detected. The value shown with the "U" qualifier is the laboratory Reporting Limit.

J Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

For analytes with both detections and non-detection results, the maximum daily discharge was calculated using the maximum of the detection values.

For analytes with both detections and non-detection results, the intake average was calculated using the average of the detection values and, for non-detections, half of the Reporting Limit.

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii)) 1

	Pollutant	Waiver Requested (input "Yes" when applicable)	Units (specify)	Effluent				Intake (Optional)	
				Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
	Mark "X" in Cell A6 if you have attached a request to NYSDEC for a waiver for *all* of the pollutants listed on this table for the noted outfall.								
Section 2.[3]									
1.	Perfluorobutanoic acid (PFBA)		Concentration						
2.	Perfluoropentanoic acid (PFPeA)		Concentration						
3.	Perfluorohexanoic acid (PFHxA)		Concentration						
4.	Perfluoroheptanoic acid (PFHpA)		Concentration						
5.	Perfluorooctanoic acid (PFOA)		Concentration						
6.	Perfluorononanoic acid (PFNA)		Concentration						
7.	Perfluorodecanoic acid (PFDA)		Concentration						
8.	Perfluoroundecanoic acid (PFUnA)		Concentration						
9.	Perfluorododecanoic acid (PFDoA)		Concentration						
10.	Perfluorotridecanoic acid (PFTriA)		Concentration						
11.	Perfluorotetradecanoic acid (PFTeA)		Concentration						
12.	Perfluorobutanesulfonic acid (PFBS)		Concentration						
13.	Perfluoropentanesulfonic acid (PFPeS)		Concentration						
14.	Perfluorohexanesulfonic acid (PFHxS)		Concentration						
15.	Perfluoroheptanesulfonic Acid (PFHpS)		Concentration						
16.	Perfluorooctanesulfonic acid (PFOS)		Concentration						
17.	Perfluorononanesulfonic acid (PFNS)		Concentration						
18.	Perfluorodecanesulfonic acid (PFDS)		Concentration						
19.	Perfluorododecanesulfonic acid (PFDoS)		Concentration						
20.	Perfluorooctanesulfonamide (FOSA)		Concentration						
21.	NMeFOSAA		Concentration						
22.	NEtFOSAA		Concentration						
23.	4:2 FTS		Concentration						
24.	6:2 FTS		Concentration						
25.	8:2 FTS		Concentration						
26.	NEtFOSA		Concentration						
27.	NMeFOSA		Concentration						
28.	NMeFOSE		Concentration						
29.	NEtFOSE		Concentration						
30.	9Cl-PF3ONS		Concentration						
31.	HFPO-DA (GenX)		Concentration						
32.	11Cl-PF3OUdS		Concentration						
33.	ADONA		Concentration						
34.	3:3 FTCA		Concentration						
35.	5:3 FTCA		Concentration						
36.	7:3 FTCA		Concentration						
37.	NFDHA		Concentration						
38.	PFMBA		Concentration						
39.	PFMPA		Concentration						
40.	PFEESA		Concentration						
Section 3.[4]									
1.	1,4-Dioxane		Concentration						

3. Analysis for the PFAS suite of compounds must be performed utilizing USEPA's draft analytical Method 1633.

4. Analysis for 1,4-Dioxane must be performed utilizing USEPA Method 8270E SIM or 8270D SIM.

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint Petroleum Remediation Project	01A

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))1

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence		Units (specify)		Effluent				Intake (optional)	
			Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
	Mark "X" in Cell A7 if you believe all pollutants on Table B to be absent in your discharge from the noted outfall. You need not check the "Believed Absent" box for each pollutant.											
Section 1. Toxic Metals, Cyanide, and Total Phenols												
1.1	Antimony, total (7440-36-0)	No	No	Yes	Concentration	µg/L	2 U			4	0.63 U	4
					Mass	g	< 4.09			4	< 1.29	4
1.2	Arsenic, total (7440-38-2)	Yes	Yes	No	Concentration	µg/L	1.7 J			4	4.48	4
					Mass	g	3.47			4	9.16	4
1.3	Beryllium, total (7440-41-7)	No	No	Yes	Concentration	µg/L	0.8 U			4	0.29 U	4
					Mass	g	< 1.64			4	< 0.59	4
1.4	Cadmium, total (7440-43-9)	No	No	Yes	Concentration	µg/L	2 U			4	0.44 U	4
					Mass	g	< 4.09			4	< 0.9	4
1.5	Chromium, total (7440-47-3)	No	No	Yes	Concentration	µg/L	4 U			4	1.22	4
					Mass	g	< 8.18			4	2.49	4
1.6	Copper, total (7440-50-8)	Yes	Yes	No	Concentration	µg/L	1.1 J			4	0.64	4
					Mass	g	2.25			4	1.31	4
1.7	Lead, total (7439-92-1)	Yes	Yes	No	Concentration	µg/L	0.32 J			4	0.22	4
					Mass	g	0.65			4	0.45	4
1.8	Mercury, total (7439-97-6)	No	No	Yes	Concentration	µg/L	0.2 U			4	0.1 U	4
					Mass	g	< 0.41			4	< 0.2	4
1.9	Nickel, total (7440-02-0)	Yes	Yes	No	Concentration	µg/L	1.9			4	2.4	4
					Mass	g	3.88			4	4.91	4
1.10	Selenium, total (7782-49-2)	No	No	Yes	Concentration	µg/L	2.5 U			4	0.69 U	4
					Mass	g	< 5.11			4	< 1.41	4
1.11	Silver, total (7440-22-4)	No	No	Yes	Concentration	µg/L	2 U			4	0.44 U	4
					Mass	g	< 4.09			4	< 0.9	4
1.12	Thallium, total (7440-28-0)	No	No	Yes	Concentration	µg/L	0.8 U			4	0.29 U	4
					Mass	g	< 1.64			4	< 0.59	4
1.13	Zinc, total (7440-66-6)	Yes	Yes	No	Concentration	µg/L	15 J			4	5.75 U	4
					Mass	g	30.66			4	< 11.75	4
1.14	Cyanide, total (57-12-5)	No	No	Yes	Concentration	µg/L						
					Mass	g						
1.15	Phenols, total	Yes	Yes	No	Concentration	µg/L	11 J			4	15	4
					Mass	g	22.48			4	30.66	4
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)												
2.1	Acrolein (107-02-8)	No	No	Yes	Concentration	µg/L	10 U			3	5 U	3
					Mass	g	< 20.44			3	< 10.22	3
2.2	Acrylonitrile (107-13-1)	No	No	Yes	Concentration	µg/L	3 U			3	1.17 U	3
					Mass	g	< 6.13			3	< 2.39	3
2.3	Benzene (71-43-2)	Yes	Yes	No	Concentration	µg/L	1 U			4	86	4
					Mass	g	< 2.04			4	175.78	4
2.4	Bromoform (75-25-2)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.5	Carbon tetrachloride (56-23-5)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.6	Chlorobenzene (108-90-7)	No	No	Yes	Concentration	µg/L	1 U			4	0.34	4
					Mass	g	< 2.04			4	0.69	4
2.7	Chlorodibromomethane (124-48-1)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.8	Chloroethane (75-00-3)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.9	2-chloroethylvinyl ether (110-75-8)	No	No	Yes	Concentration	µg/L	1 UT			3	0.5 U	3
					Mass	g	< 2.04			3	< 1.02	3
2.10	Chloroform (67-66-3)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.11	Dichlorobromomethane (75-27-4)	No	No	Yes	Concentration	µg/L	1 U			4	0.49	4
					Mass	g	< 2.04			4	1.00	4
2.12	1,1-dichloroethane (75-34-3)	Yes	Yes	No	Concentration	µg/L	1 U			4	0.81	4
					Mass	g	< 2.04			4	1.66	4
2.13	1,2-dichloroethane (107-06-2)	Yes	Yes	No	Concentration	µg/L	1 U			4	2.08	4
					Mass	g	< 2.04			4	4.25	4
2.14	1,1-dichloroethylene (75-35-4)	No	No	Yes	Concentration	µg/L	1 U			4	0.77	4
					Mass	g	< 2.04			4	1.57	4
2.15	1,2-dichloropropane (78-87-5)	No	No	Yes	Concentration	µg/L	1 U			4	0.5	4
					Mass	g	< 2.04			4	1.02	4
2.16	1,3-dichloropropylene (542-75-6)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.17	Ethylbenzene (100-41-4)	Yes	Yes	No	Concentration	µg/L	1 U			4	3.33	4
					Mass	g	< 2.04			4	6.81	4
2.18	Methyl bromide (74-83-9)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.19	Methyl chloride (74-87-3)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.20	Methylene chloride (75-09-2)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.21	1,1,2,2- tetrachloroethane (79-34-5)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.22	Tetrachloroethylene (127-18-4)	Yes	Yes	No	Concentration	µg/L	0.97 J			4	300	4
					Mass	g	1.98			4	613.17	4
2.23	Toluene (108-88-3)	Yes	Yes	No	Concentration	µg/L	1 U			4	2.45	4
					Mass	g	< 2.04			4	5.01	4
2.24	1,2-trans-dichloroethylene (156-60-5)	No	No	Yes	Concentration	µg/L	1 U			4	0.61	4
					Mass	g	< 2.04			4	1.25	4
2.25	1,1,1-trichloroethane (71-55-6)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.26	1,1,2-trichloroethane (79-00-5)	Yes	Yes	No	Concentration	µg/L	0.43 J			4	0.5 U	4
					Mass	g	0.88			4	< 1.02	4
2.27	Trichloroethylene (79-01-6)	Yes	Yes	No	Concentration	µg/L	0.21 J			4	44.5	4
					Mass	g	0.43			4	90.95	4

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))1

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence		Units (specify)		Effluent				Intake (optional)	
			Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.28	Vinyl chloride (75-01-4)	Yes	Yes	No	Concentration	µg/L	1 U			4	7.3	4
					Mass	g	< 2.04			4	14.92	4
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
3.2	2,4-dichlorophenol (120-83-2)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
3.3	2,4-dimethylphenol (105-67-9)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
3.4	4,6-dinitro-o-cresol (534-52-1)	No	No	Yes	Concentration	µg/L	20 U			4	6.75 U	4
					Mass	g	< 40.88			4	< 13.8	4
3.5	2,4-dinitrophenol (51-28-5)	No	No	Yes	Concentration	µg/L	20 U			4	6.75 U	4
					Mass	g	< 40.88			4	< 13.8	4
3.6	2-nitrophenol (88-75-5)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
3.7	4-nitrophenol (100-02-7)	No	No	Yes	Concentration	µg/L	20 U			4	4.65 U	4
					Mass	g	< 40.88			4	< 9.5	4
3.8	p-chloro-m-cresol (59-50-7)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
3.9	Pentachlorophenol (87-86-5)	No	No	Yes	Concentration	µg/L	20 U			4	4.65 U	4
					Mass	g	< 40.88			4	< 9.5	4
3.10	Phenol (108-95-2)	Yes	Yes	No	Concentration	µg/L	10 U			4	1.83	4
					Mass	g	< 20.44			4	3.74	4
3.11	2,4,6-trichlorophenol (88-05-2)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	No	No	Yes	Concentration	µg/L	10 U			4	2.42	4
					Mass	g	< 20.44			4	4.95	4
4.2	Acenaphthylene (208-96-8)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.3	Anthracene (120-12-7)	No	No	Yes	Concentration	µg/L	10 U			4	2.96	4
					Mass	g	< 20.44			4	6.05	4
4.4	Benzidine (92-87-5)	No	No	Yes	Concentration	µg/L	61 UT			4	27 U	4
					Mass	g	< 124.68			4	< 55.19	4
4.5	Benzo (a) anthracene (56-55-3)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.28 U	4
					Mass	g	< 10.42			4	< 4.66	4
4.6	Benzo (a) pyrene (50-32-8)	No	No	Yes	Concentration	µg/L	5.1 U			4	1.71	4
					Mass	g	< 10.42			4	3.50	4
4.7	3,4-benzofluoranthene (205-99-2)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.4 U	4
					Mass	g	< 10.42			4	< 4.91	4
4.8	Benzo (ghi) perylene (191-24-2)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.9	Benzo (k) fluoranthene (207-08-9)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.28 U	4
					Mass	g	< 10.42			4	< 4.66	4
4.10	Bis (2-chloroethoxy) methane (111-91-1)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.11	Bis (2-chloroethyl) ether (111-44-4)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.28 U	4
					Mass	g	< 10.42			4	< 4.66	4
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.4 U	4
					Mass	g	< 10.42			4	< 4.91	4
4.14	4-bromophenyl phenyl ether (101-55-3)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.15	Butyl benzyl phthalate (85-68-7)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.16	2-chloronaphthalene (91-58-7)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.17	4-chlorophenyl phenyl ether (7005-72-3)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.18	Chrysene (218-01-9)	No	No	Yes	Concentration	µg/L	5.1 U			4	1.82	4
					Mass	g	< 10.42			4	3.72	4
4.19	Dibenzo (a,h) anthracene (53-70-3)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.28 U	4
					Mass	g	< 10.42			4	< 4.66	4
4.20	1,2-dichlorobenzene (95-50-1)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
4.21	1,3-dichlorobenzene (541-73-1)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
4.22	1,4-dichlorobenzene (106-46-7)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
4.23	3,3-dichlorobenzidine (91-94-1)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.24	Diethyl phthalate (84-66-2)	Yes	Yes	No	Concentration	µg/L	0.56 J			4	3.4 U	4
					Mass	g	1.14			4	< 6.95	4
4.25	Dimethyl phthalate (131-11-3)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.26	Di-n-butyl phthalate (84-74-2)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.27	2,4-dinitrotoluene (121-14-2)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.4 U	4
					Mass	g	< 10.42			4	< 4.91	4
4.28	2,6-dinitrotoluene (606-20-2)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.4 U	4
					Mass	g	< 10.42			4	< 4.91	4
4.29	Di-n-octyl phthalate (117-84-0)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.31	Fluoranthene (206-44-0)	No	No	Yes	Concentration	µg/L	10 U			4	2.26	4
					Mass	g	< 20.44			4	4.62	4

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))1

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence		Units (specify)		Effluent				Intake (optional)	
			Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.32	Fluorene (86-73-7)	No	No	Yes	Concentration	µg/L	10 U			4	2.78	4
					Mass	g	< 20.44			4	5.68	4
4.33	Hexachlorobenzene (118-74-1)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.28 U	4
					Mass	g	< 10.42			4	< 4.66	4
4.34	Hexachlorobutadiene (87-68-3)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
4.35	Hexachlorocyclopentadiene (77-47-4)	No	No	Yes	Concentration	µg/L	15 U			4	7.75 U	4
					Mass	g	< 30.66			4	< 15.84	4
4.36	Hexachloroethane (67-72-1)	No	No	Yes	Concentration	µg/L	2 U			4	1.1 U	4
					Mass	g	< 4.09			4	< 2.25	4
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.4 U	4
					Mass	g	< 10.42			4	< 4.91	4
4.38	Isophorone (78-59-1)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.39	Naphthalene (91-20-3)	Yes	Yes	No	Concentration	µg/L	2 U			4	2.96	4
					Mass	g	< 4.09			4	6.05	4
4.40	Nitrobenzene (98-95-3)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.4 U	4
					Mass	g	< 10.42			4	< 4.91	4
4.41	N-nitrosodimethylamine (62-75-9)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.42	N-nitrosodi-n-propylamine (621-64-7)	No	No	Yes	Concentration	µg/L	5.1 U			4	2.28 U	4
					Mass	g	< 10.42			4	< 4.66	4
4.43	N-nitrosodiphenylamine (86-30-6)	No	No	Yes	Concentration	µg/L	10 U			4	3.4 U	4
					Mass	g	< 20.44			4	< 6.95	4
4.44	Phenanthrene (85-01-8)	No	No	Yes	Concentration	µg/L	10 U			4	3.83	4
					Mass	g	< 20.44			4	7.83	4
4.45	Pyrene (129-00-0)	Yes	Yes	No	Concentration	µg/L	0.65 J			4	2.57	4
					Mass	g	1.33			4	5.25	4
4.46	1,2,4-trichlorobenzene (120-82-1)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	No	No	Yes	Concentration	µg/L	0.02 U			2	0.01 U	2
					Mass	g	< 0.04			2	< 0.02	2
5.2	α-BHC (319-84-6)	No	No	Yes	Concentration	µg/L	0.048 U			2	0.01 U	2
					Mass	g	< 0.1			2	< 0.02	2
5.3	β-BHC (319-85-7)	No	No	Yes	Concentration	µg/L	0.16 U			2	0.04 U	2
					Mass	g	< 0.33			2	< 0.08	2
5.4	γ-BHC (58-89-9)	No	No	Yes	Concentration	µg/L	0.03 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.5	δ-BHC (319-86-8)	No	No	Yes	Concentration	µg/L	0.048 U			2	0.01 U	2
					Mass	g	< 0.1			2	< 0.02	2
5.6	Chlordane (57-74-9)	No	No	Yes	Concentration	µg/L	0.81 U			1	0.31 U	1
					Mass	g	< 1.66			1	< 0.63	1
5.7	4,4'-DDT (50-29-3)	No	No	Yes	Concentration	µg/L	0.032 U			2	0.01 U	2
					Mass	g	< 0.07			2	< 0.02	2
5.8	4,4'-DDE (72-55-9)	No	No	Yes	Concentration	µg/L	0.065 U			2	0.02 U	2
					Mass	g	< 0.13			2	< 0.04	2
5.9	4,4'-DDD (72-54-8)	No	No	Yes	Concentration	µg/L	0.04 U			2	0.13	2
					Mass	g	< 0.08			2	0.27	2
5.10	Dieldrin (60-57-1)	No	No	Yes	Concentration	µg/L	0.032 U			2	0.01 U	2
					Mass	g	< 0.07			2	< 0.02	2
5.11	α-endosulfan (115-29-7)	No	No	Yes	Concentration	µg/L	0.03 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.12	β-endosulfan (115-29-7)	No	No	Yes	Concentration	µg/L	0.032 U			2	0.01 U	2
					Mass	g	< 0.07			2	< 0.02	2
5.13	Endosulfan sulfate (1031-07-8)	No	No	Yes	Concentration	µg/L	0.032 U			2	0.01 U	2
					Mass	g	< 0.07			2	< 0.02	2
5.14	Endrin (72-20-8)	No	No	Yes	Concentration	µg/L	0.16 U			2	0.04 U	2
					Mass	g	< 0.33			2	< 0.08	2
5.15	Endrin aldehyde (7421-93-4)	No	No	Yes	Concentration	µg/L	0.032 U			2	0.01 U	2
					Mass	g	< 0.07			2	< 0.02	2
5.16	Heptachlor (76-44-8)	No	No	Yes	Concentration	µg/L	0.03 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.17	Heptachlor epoxide (1024-57-3)	No	No	Yes	Concentration	µg/L	0.16 U			2	0.04 U	2
					Mass	g	< 0.33			2	< 0.08	2
5.18	PCB-1242 (53469-21-9)	No	No	Yes	Concentration	µg/L	0.81 U			1	0.31 U	1
					Mass	g	< 1.66			1	< 0.63	1
5.19	PCB-1254 (11097-69-1)	No	No	Yes	Concentration	µg/L	0.81 U			1	0.31 U	1
					Mass	g	< 1.66			1	< 0.63	1
5.20	PCB-1221 (11104-28-2)	No	No	Yes	Concentration	µg/L	0.81 U			1	0.31 U	1
					Mass	g	< 1.66			1	< 0.63	1
5.21	PCB-1232 (11141-16-5)	No	No	Yes	Concentration	µg/L	0.81 U			1	0.31 U	1
					Mass	g	< 1.66			1	< 0.63	1
5.22	PCB-1248 (12672-29-6)	No	No	Yes	Concentration	µg/L	0.81 U			1	0.31 U	1
					Mass	g	< 1.66			1	< 0.63	1
5.23	PCB-1260 (11096-82-5)	No	No	Yes	Concentration	µg/L	0.81 U			1	0.31 U	1
					Mass	g	< 1.66			1	< 0.63	1
5.24	PCB-1016 (12674-11-2)	No	No	Yes	Concentration	µg/L	0.81 U			1	0.31 U	1
					Mass	g	< 1.66			1	< 0.63	1
5.25	Toxaphene (8001-35-2)	No	No	Yes	Concentration	µg/L	1.6 U			2	0.43 U	2
					Mass	g	< 3.27			2	< 0.88	2

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

2 Analysis for Total Recoverable Mercury must be performed utilizing the low-level, USEPA Method 1631E.

Additional Notes:

U Compound was analyzed for but not detected. The value shown with the "U" qualifier is the laboratory Reporting Limit.

J Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

T Indicates that a quality control parameter has exceeded laboratory limits.

For analytes with both detections and non-detection results, the maximum daily discharge was calculated using the maximum of the detection values.

For analytes with both detections and non-detection results, the intake average was calculated using the average of the detection values and, for non-detections, half of the Reporting Limit.

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint Petroleum Remediation Project	01A

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))1

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence		Units (specify)		Effluent				Intake (Optional)	
		Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
	Check here if you believe all pollutants on Table C to be ***present*** in your discharge from the noted outfall. You need *not* check the "Believed Present" box for each pollutant.										
	Check here if you believe all pollutants on Table C to be ***absent*** in your discharge from the noted outfall. You need *not* check the "Believed Absent" box for each pollutant.										
1.	Bromide (24959-67-9)	No	Yes	Concentration							
				Mass							
2.	Chlorine, total residual	No	Yes	Concentration							
				Mass							
3.	Color	No	Yes	Concentration							
				Mass							
4.	Fecal coliform	No	Yes	Concentration							
				Mass							
5.	Fluoride (16984-48-8)	No	Yes	Concentration							
				Mass							
6	Nitrate-nitrite	Yes	No	Concentration	µg/L	1,200			1	210	1
				Mass	g	2,453			1	429	1
7.	Nitrogen, total organic (as N)	Yes	No	Concentration	µg/L	1,900			4	1,500	4
				Mass	g	3,883			4	3,066	4
8.	Oil and grease	Yes	No	Concentration	µg/L	2000 J			4	2,775	4
				Mass	g	4,088			4	5,672	4
9.	Phosphorus (as P), total (7723-14-0)	Yes	No	Concentration	µg/L	250			1	140	1
				Mass	g	511			1	286	1
10.	Sulfate (as SO4) (14808-79-8)	Yes	No	Concentration	µg/L	190,000			4	195,000	4
				Mass	g	388,341			4	398,561	4
11.	Sulfide (as S)	No	Yes	Concentration							
				Mass							
12.	Sulfite (as SO3) (14265-45-3)	No	Yes	Concentration							
				Mass							
13.	Surfactants	No	Yes	Concentration							
				Mass							
14.	Aluminum, total (7429-90-5)	Yes	No	Concentration	µg/L	16 J			4	15.63 U	4
				Mass	g	32.70			4	< 31.95	4
15.	Barium, total (7440-39-3)	Yes	No	Concentration	µg/L	320			4	315	4
				Mass	g	654			4	644	4
16.	Boron, total (7440-42-8)	No	Yes	Concentration							
				Mass							
17.	Cobalt, total (7440-48-4)	Yes	No	Concentration	µg/L	1.4 J			4	2	4
				Mass	g	2.86			4	3	4
18.	Iron, total (7439-89-6)	Yes	No	Concentration	µg/L	950			4	4,325	4
				Mass	g	1,942			4	8,840	4
19.	Magnesium, total (7439-95-4)	Yes	No	Concentration	µg/L	92,000			4	87,500	4
				Mass	g	188,039			4	178,841	4
20.	Molybdenum, total (7439-98-7)	No	Yes	Concentration							
				Mass							
21.	Manganese, total (7439-96-5)	Yes	No	Concentration	µg/L	2800 T			4	2,550	4
				Mass	g	5,723			4	5,212	4
22.	Tin, total (7440-31-5)	No	Yes	Concentration							
				Mass							
23.	Titanium, total (7440-32-6)	No	Yes	Concentration							
				Mass							
24.	**Radioactivity**										
	Alpha, total	No	Yes	Concentration							
				Mass							
	Beta, total	No	Yes	Concentration							
				Mass							
	Radium, total	No	Yes	Concentration							
				Mass							
	Radium 226, total	No	Yes	Concentration							
				Mass							

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

Additional Notes:

U Compound was analyzed for but not detected. The value shown with the "U" qualifier is the laboratory Reporting Limit.

J Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

T Indicates that a quality control parameter has exceeded laboratory limits.

For analytes with both detections and non-detection results, the maximum daily discharge was calculated using the maximum of the detection values.

For analytes with both detections and non-detection results, the intake average was calculated using the average of the detection values and, for non-detections, half of the Reporting Limit.

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))1

	Pollutant	Presence or Absence		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)		
1.	Asbestos	No	Yes		
2.	Acetaldehyde	No	Yes		
3.	Allyl alcohol	No	Yes		
4.	Allyl chloride	No	Yes		
5.	Amyl acetate	No	Yes		
6.	Aniline	No	Yes		
7.	Benzonitrile	No	Yes		
8.	Benzyl chloride	No	Yes		
9.	Butyl acetate	No	Yes		
10.	Butylamine	No	Yes		
11.	Captan	No	Yes		
12.	Carbaryl	No	Yes		
13.	Carbofuran	No	Yes		
14.	Carbon disulfide	No	Yes		
15.	Chlorpyrifos	No	Yes		
16.	Coumaphos	No	Yes		
17.	Cresol	No	Yes		
18.	Crotonaldehyde	No	Yes		
19.	Cyclohexane	No	Yes	Not present in effluent samples, present in influent	Influent (avg) = 43.25 ug/L
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	No	Yes		
21.	Diazinon	No	Yes		
22.	Dicamba	No	Yes		
23.	Dichlobenil	No	Yes		
24.	Dichlone	No	Yes		
25.	2,2-dichloropropionic acid	No	Yes		
26.	Dichlorvos	No	Yes		
27.	Diethyl amine	No	Yes		
28.	Dimethyl amine	No	Yes		
29.	Dintrobenzene	No	Yes		
30.	Diquat	No	Yes		
31.	Disulfoton	No	Yes		
32.	Diuron	No	Yes		
33.	Epichlorohydrin	No	Yes		
34.	Ethion	No	Yes		
35.	Ethylene diamine	No	Yes		
36.	Ethylene dibromide	No	Yes		
37.	Formaldehyde	No	Yes		
38.	Furfural	No	Yes		
39.	Guthion	No	Yes		
40.	Isoprene	No	Yes		
41.	Isopropanolamine	No	Yes		
42.	Kelthane	No	Yes		
43.	Kepone	No	Yes		
44.	Malathion	No	Yes		
45.	Mercaptodimethur	No	Yes		
46.	Methoxychlor	No	Yes		
47.	Methyl mercaptan	No	Yes		
48.	Methyl methacrylate	No	Yes		
49.	Methyl parathion	No	Yes		
50.	Mevinphos	No	Yes		
51.	Mexacarbate	No	Yes		
52.	Monoethyl amine	No	Yes		
53.	Monomethyl amine	No	Yes		
54.	Naled	No	Yes		
55.	Naphthenic acid	No	Yes		
56.	Nitrotoluene	No	Yes		
57.	Parathion	No	Yes		
58.	Phenolsulfonate	No	Yes		
59.	Phosgene	No	Yes		
60.	Propargite	No	Yes		
61.	Propylene oxide	No	Yes		
62.	Pyrethrins	No	Yes		
63.	Quinoline	No	Yes		
64.	Resorcinol	No	Yes		
65.	Strontium	No	Yes		
66.	Strychnine	No	Yes		
67.	Styrene	No	Yes		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	No	Yes		
69.	TDE (tetrachlorodiphenyl ethane)	No	Yes		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic	No	Yes		
71.	Trichlorofon	No	Yes		
72.	Triethanolamine	No	Yes		
73.	Triethylamine	No	Yes		
74.	Trimethylamine	No	Yes		
75.	Uranium	No	Yes		

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint Petroleum Remediation Project	01A

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))1

	Pollutant	Presence or Absence		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)		
76.	Vanadium	Yes	No	Present in influent/effluent samples	Influent (avg) =1.7 ug/L, Effluent (max) = 0.5 J ug/L
77.	Vinyl acetate	No	Yes		
78.	Xylene	Yes	No	Not present in effluent samples, present in influent	Influent (avg) =23 ug/L
79.	Xylenol	No	Yes		
80.	Zirconium	No	Yes		

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

Additional Notes:

J Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence		Results of Screening Procedure
		Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)	
2,3,7,8-TCDD	No	No	Yes	

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint Petroleum Remediation Project	Outfall #002

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii)) 1

	Pollutant	Waiver Requested (input "Yes" when applicable)	Units (specify)		Effluent: Maximum Daily Discharge (required)	Effluent: Maximum Monthly Discharge (if available)	Effluent: Long-Term Average Daily Discharge (if available)	Effluent: Number of Analyses	Intake (Optional): Long-Term Average Value	Intake (Optional): Number of Analyses
	Mark "X" in Cell A6 if you have attached a request to NYSDEC for a waiver for *all* of the pollutants listed on this table for the noted outfall.									
Section 1.										
1.	Biochemical oxygen demand (BOD5)		Concentration	µg/L	2000 U			4	2050	4
			Mass	g	< 4088			4	4,190	4
2.	Chemical oxygen demand (COD)		Concentration	µg/L	92,000			4	32,000	4
			Mass	g	188,039			4	65,405	4
3.	Total organic carbon (TOC)		Concentration	µg/L	3,200			1	3,200	1
			Mass	g	6,540			1	6,540	1
4.	Total suspended solids (TSS)		Concentration	µg/L	3,300			4	9,950	4
			Mass	g	6,745			4	20,337	4
5.	Ammonia (as N)		Concentration	µg/L						
			Mass	g						
6.	Flow		Rate	GPM	383			4	329	4
7.	Temperature (winter)		°C	°C	15.45			4	16.07	4
	Temperature (summer)		°C	°C	16.79			4	17.67	4
8.	pH (minimum)		Standard units	SU	7.70			4	6.64	4
	pH (maximum)		Standard units	SU	7.88			4	7.47	4
9.	Mercury[2]		Concentration	µg/L	0.2 U			4	0.1	4
			Mass	g	< 0.41			4	0.20	4

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

2 Analysis for Mercury must be performed utilizing the low-level, USEPA Method 1631

Additional Notes:

Temperature and pH were measured at the time of sampling and during lab analysis. Values are representative of field data.

U Compound was analyzed for but not detected. The value shown with the "U" qualifier is the laboratory Reporting Limit.

For analytes with both detections and non-detection results, the maximum daily discharge was calculated using the maximum of the detection values.

For analytes with both detections and non-detection results, the intake average was calculated using the average of the detection values and, for non-detections, half of the Reporting Limit.

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number	

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii)) 1

	Pollutant	Waiver Requested (input "Yes" when applicable)	Units (specify)	Effluent					Intake (Optional)	
				Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses		Long-Term Average Value	Number of Analyses
	Mark "X" in Cell A6 if you have attached a request to NYSDEC for a waiver for *all* of the pollutants listed on this table for the noted outfall.									
Section 2.[3]										
1.	Perfluorobutanoic acid (PFBA)		Concentration							
2.	Perfluoropentanoic acid (PFPeA)		Concentration							
3.	Perfluorohexanoic acid (PFHxA)		Concentration							
4.	Perfluoroheptanoic acid (PFHpA)		Concentration							
5.	Perfluorooctanoic acid (PFOA)		Concentration							
6.	Perfluorononanoic acid (PFNA)		Concentration							
7.	Perfluorodecanoic acid (PFDA)		Concentration							
8.	Perfluoroundecanoic acid (PFUnA)		Concentration							
9.	Perfluorododecanoic acid (PFDoA)		Concentration							
10.	Perfluorotridecanoic acid (PFTriA)		Concentration							
11.	Perfluorotetradecanoic acid (PFTeA)		Concentration							
12.	Perfluorobutanesulfonic acid (PFBS)		Concentration							
13.	Perfluoropentanesulfonic acid (PFPeS)		Concentration							
14.	Perfluorohexanesulfonic acid (PFHxS)		Concentration							
15.	Perfluoroheptanesulfonic Acid (PFHpS)		Concentration							
16.	Perfluorooctanesulfonic acid (PFOS)		Concentration							
17.	Perfluorononanesulfonic acid (PFNS)		Concentration							
18.	Perfluorodecanesulfonic acid (PFDS)		Concentration							
19.	Perfluorododecanesulfonic acid (PFDoS)		Concentration							
20.	Perfluorooctanesulfonamide (FOSA)		Concentration							
21.	NMeFOSAA		Concentration							
22.	NEtFOSAA		Concentration							
23.	4:2 FTS		Concentration							
24.	6:2 FTS		Concentration							
25.	8:2 FTS		Concentration							
26.	NEtFOSA		Concentration							
27.	NMeFOSA		Concentration							
28.	NMeFOSE		Concentration							
29.	NEtFOSE		Concentration							
30.	9Cl-PF3ONS		Concentration							
31.	HFPO-DA (GenX)		Concentration							
32.	11Cl-PF3OUdS		Concentration							
33.	ADONA		Concentration							
34.	3:3 FTCA		Concentration							
35.	5:3 FTCA		Concentration							
36.	7:3 FTCA		Concentration							
37.	NFDHA		Concentration							
38.	PFMBA		Concentration							
39.	PFMPA		Concentration							
40.	PFEESA		Concentration							
Section 3.[4]										
1.	1,4-Dioxane		Concentration							

3. Analysis for the PFAS suite of compounds must be performed utilizing USEPA's draft analytical Method 1633.

4. Analysis for 1,4-Dioxane must be performed utilizing USEPA Method 8270E SIM or 8270D SIM.

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint Petroleum Remediation Project	Outfall #002

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))1

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence: Believed Present (Input "Yes" or "No" only)	Presence or Absence: Believed Absent (Input "Yes" or "No" only)	Units (specify)		Effluent: Maximum Daily Discharge (required)	Effluent: Maximum Monthly Discharge (if available)	Effluent: Long-Term Average Daily Discharge (if available)	Effluent: Number of Analyses	Intake (optional): Long- Term Average Value	Intake (optional): Number of Analyses
	Mark "X" in Cell A7 if you believe all pollutants on Table B to be absent in your discharge from the noted outfall. You need not check the "Believed Absent" box for each pollutant.											
Section 1. Toxic Metals, Cyanide, and Total Phenols												
1.1	Antimony, total (7440-36-0)	No	No	Yes	Concentration	µg/L	2 U			4	0.63 U	4
					Mass	g	< 4.09			4	< 1.29	4
1.2	Arsenic, total (7440-38-2)	Yes	Yes	No	Concentration	µg/L	1.9 J			4	3.80	4
					Mass	g	3.88			4	7.77	4
1.3	Beryllium, total (7440-41-7)	No	No	Yes	Concentration	µg/L	0.8 U			4	0.29 U	4
					Mass	g	< 1.64			4	< 0.59	4
1.4	Cadmium, total (7440-43-9)	No	No	Yes	Concentration	µg/L	2 U			4	0.44 U	4
					Mass	g	< 4.09			4	< 0.9	4
1.5	Chromium, total (7440-47-3)	Yes	Yes	No	Concentration	µg/L	2.70			4	1.25 U	4
					Mass	g	5.52			4	< 2.55	4
1.6	Copper, total (7440-50-8)	Yes	Yes	No	Concentration	µg/L	0.62 J			4	1.07	4
					Mass	g	1.27			4	2.19	4
1.7	Lead, total (7439-92-1)	No	No	Yes	Concentration	µg/L	1.2 U			4	0.34 U	4
					Mass	g	< 2.45			4	< 0.69	4
1.8	Mercury, total (7439-97-6)	No	No	Yes	Concentration	µg/L	0.2 U			4	0.10	4
					Mass	g	< 0.41			4	0.20	4
1.9	Nickel, total (7440-02-0)	Yes	Yes	No	Concentration	µg/L	4.80			4	3.83	4
					Mass	g	9.81			4	7.83	4
1.10	Selenium, total (7782-49-2)	Yes	Yes	No	Concentration	µg/L	1.70			4	1.50	4
					Mass	g	3.47			4	3.07	4
1.11	Silver, total (7440-22-4)	No	No	Yes	Concentration	µg/L	2 U			4	0.44 U	4
					Mass	g	< 4.09			4	< 0.9	4
1.12	Thallium, total (7440-28-0)	No	No	Yes	Concentration	µg/L	0.8 U			4	0.29 U	4
					Mass	g	< 1.64			4	< 0.59	4
1.13	Zinc, total (7440-66-6)	Yes	Yes	No	Concentration	µg/L	4.3 J			4	4.45	4
					Mass	g	8.79			4	9.10	4
1.14	Cyanide, total (57-12-5)	No	No	Yes	Concentration	µg/L						
					Mass	g						
1.15	Phenols, total	Yes	Yes	No	Concentration	µg/L	200 U			4	15.5	4
					Mass	g	< 408.78			4	31.7	4
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)												
2.1	Acrolein (107-02-8)	No	No	Yes	Concentration	µg/L	10 U			3	5 U	3
					Mass	g	< 20.44			3	< 10.22	3
2.2	Acrylonitrile (107-13-1)	No	No	Yes	Concentration	µg/L	3 U			3	1.17 U	3
					Mass	g	< 6.13			3	< 2.39	3
2.3	Benzene (71-43-2)	Yes	Yes	No	Concentration	µg/L	1 U			4	260	4
					Mass	g	< 2.04			4	531	4
2.4	Bromoform (75-25-2)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.5	Carbon tetrachloride (56-23-5)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.6	Chlorobenzene (108-90-7)	No	No	Yes	Concentration	µg/L	1 U			4	0.67	4
					Mass	g	< 2.04			4	1.37	4
2.7	Chlorodibromomethane (124-48-1)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.8	Chloroethane (75-00-3)	No	No	Yes	Concentration	µg/L	1 U			4	0.57	4
					Mass	g	< 2.04			4	1.17	4
2.9	2-chloroethylvinyl ether (110-75-8)	No	No	Yes	Concentration	µg/L	1 U			3	0.5 U	3
					Mass	g	< 2.04			3	< 1.02	3
2.10	Chloroform (67-66-3)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.11	Dichlorobromomethane (75-27-4)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.12	1,1-dichloroethane (75-34-3)	Yes	Yes	No	Concentration	µg/L	1 U			4	0.59	4
					Mass	g	< 2.04			4	1.21	4
2.13	1,2-dichloroethane (107-06-2)	Yes	Yes	No	Concentration	µg/L	1.2			4	8.38	4
					Mass	g	2.45			4	17.1	4
2.14	1,1-dichloroethylene (75-35-4)	No	No	Yes	Concentration	µg/L	1 U			4	0.98	4
					Mass	g	< 2.04			4	2.00	4
2.15	1,2-dichloropropane (78-87-5)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.16	1,3-dichloropropylene (542-75-6)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.17	Ethylbenzene (100-41-4)	Yes	Yes	No	Concentration	µg/L	1 U			4	15.25	4
					Mass	g	< 2.04			4	31.17	4
2.18	Methyl bromide (74-83-9)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.19	Methyl chloride (74-87-3)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.20	Methylene chloride (75-09-2)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.21	1,1,2,2- tetrachloroethane (79-34-5)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.22	Tetrachloroethylene (127-18-4)	Yes	Yes	No	Concentration	µg/L	1.4			4	228	4
					Mass	g	2.86			4	465	4
2.23	Toluene (108-88-3)	Yes	Yes	No	Concentration	µg/L	1 U			4	7.80	4
					Mass	g	< 2.04			4	15.9	4
2.24	1,2-trans-dichloroethylene (156-60-5)	No	No	Yes	Concentration	µg/L	1 U			4	1.70	4
					Mass	g	< 2.04			4	3.47	4
2.25	1,1,1-trichloroethane (71-55-6)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.26	1,1,2-trichloroethane (79-00-5)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
2.27	Trichloroethylene (79-01-6)	Yes	Yes	No	Concentration	µg/L	1.5			4	128	4
					Mass	g	3.07			4	261	4

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))1

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence		Units (specify)		Effluent				Intake (optional)	
			Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.28	Vinyl chloride (75-01-4)	Yes	Yes	No	Concentration	µg/L	1 U			4	6.9	4
					Mass	g	< 2.04			4	14	4
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
3.2	2,4-dichlorophenol (120-83-2)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
3.3	2,4-dimethylphenol (105-67-9)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
3.4	4,6-dinitro-o-cresol (534-52-1)	No	No	Yes	Concentration	µg/L	20 U			4	6.88 U	4
					Mass	g	< 40.88			4	< 14.06	4
3.5	2,4-dinitrophenol (51-28-5)	No	No	Yes	Concentration	µg/L	20 UT			4	6.88 U	4
					Mass	g	< 40.88			4	< 14.06	4
3.6	2-nitrophenol (88-75-5)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
3.7	4-nitrophenol (100-02-7)	No	No	Yes	Concentration	µg/L	20 U			4	4.66 U	4
					Mass	g	< 40.88			4	< 9.52	4
3.8	p-chloro-m-cresol (59-50-7)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
3.9	Pentachlorophenol (87-86-5)	No	No	Yes	Concentration	µg/L	20 U			4	4.66 U	4
					Mass	g	< 40.88			4	< 9.52	4
3.10	Phenol (108-95-2)	Yes	Yes	No	Concentration	µg/L	10 U			4	1.69	4
					Mass	g	< 20.44			4	3.45	4
3.11	2,4,6-trichlorophenol (88-05-2)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	No	No	Yes	Concentration	µg/L	10 U			4	1.51	4
					Mass	g	< 20.44			4	3.09	4
4.2	Acenaphthylene (208-96-8)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.3	Anthracene (120-12-7)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.4	Benzidine (92-87-5)	No	No	Yes	Concentration	µg/L	66 U			4	27 U	4
					Mass	g	< 134.9			4	< 55.19	4
4.5	Benzo (a) anthracene (56-55-3)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.29 U	4
					Mass	g	< 11.24			4	< 4.68	4
4.6	Benzo (a) pyrene (50-32-8)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.29 U	4
					Mass	g	< 11.24			4	< 4.68	4
4.7	3,4-benzofluoranthene (205-99-2)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.41 U	4
					Mass	g	< 11.24			4	< 4.93	4
4.8	Benzo (ghi) perylene (191-24-2)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.9	Benzo (k) fluoranthene (207-08-9)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.29 U	4
					Mass	g	< 11.24			4	< 4.68	4
4.10	Bis (2-chloroethoxy) methane (111-91-1)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.11	Bis (2-chloroethyl) ether (111-44-4)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.29 U	4
					Mass	g	< 11.24			4	< 4.68	4
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.41 U	4
					Mass	g	< 11.24			4	< 4.93	4
4.14	4-bromophenyl phenyl ether (101-55-3)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.15	Butyl benzyl phthalate (85-68-7)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.16	2-chloronaphthalene (91-58-7)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.17	4-chlorophenyl phenyl ether (7005-72-3)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.18	Chrysene (218-01-9)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.41 U	4
					Mass	g	< 11.24			4	< 4.93	4
4.19	Dibenzo (a,h) anthracene (53-70-3)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.29 U	4
					Mass	g	< 11.24			4	< 4.68	4
4.20	1,2-dichlorobenzene (95-50-1)	No	No	Yes	Concentration	µg/L	1 U			4	0.41	4
					Mass	g	< 2.04			4	0.84	4
4.21	1,3-dichlorobenzene (541-73-1)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
4.22	1,4-dichlorobenzene (106-46-7)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
4.23	3,3-dichlorobenzidine (91-94-1)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.24	Diethyl phthalate (84-66-2)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.25	Dimethyl phthalate (131-11-3)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.26	Di-n-butyl phthalate (84-74-2)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.27	2,4-dinitrotoluene (121-14-2)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.41 U	4
					Mass	g	< 11.24			4	< 4.93	4
4.28	2,6-dinitrotoluene (606-20-2)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.41 U	4
					Mass	g	< 11.24			4	< 4.93	4
4.29	Di-n-octyl phthalate (117-84-0)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.31	Fluoranthene (206-44-0)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint Petroleum Remediation Project	Outfall #002

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))1

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence		Units (specify)		Effluent				Intake (optional)	
			Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.32	Fluorene (86-73-7)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.33	Hexachlorobenzene (118-74-1)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.29 U	4
					Mass	g	< 11.24			4	< 4.68	4
4.34	Hexachlorobutadiene (87-68-3)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
4.35	Hexachlorocyclopentadiene (77-47-4)	No	No	Yes	Concentration	µg/L	17 U			4	7.75 U	4
					Mass	g	< 34.75			4	< 15.84	4
4.36	Hexachloroethane (67-72-1)	No	No	Yes	Concentration	µg/L	2.2 U			4	1.1 U	4
					Mass	g	< 4.5			4	< 2.25	4
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.41 U	4
					Mass	g	< 11.24			4	< 4.93	4
4.38	Isophorone (78-59-1)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.39	Naphthalene (91-20-3)	Yes	Yes	No	Concentration	µg/L	2.2 U			4	6.58	4
					Mass	g	< 4.5			4	13.4	4
4.40	Nitrobenzene (98-95-3)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.41 U	4
					Mass	g	< 11.24			4	< 4.93	4
4.41	N-nitrosodimethylamine (62-75-9)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.42	N-nitrosodi-n-propylamine (621-64-7)	No	No	Yes	Concentration	µg/L	5.5 U			4	2.41 U	4
					Mass	g	< 11.24			4	< 4.93	4
4.43	N-nitrosodiphenylamine (86-30-6)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.44	Phenanthrene (85-01-8)	No	No	Yes	Concentration	µg/L	10 U			4	2.19	4
					Mass	g	< 20.44			4	4.48	4
4.45	Pyrene (129-00-0)	No	No	Yes	Concentration	µg/L	10 U			4	3.41 U	4
					Mass	g	< 20.44			4	< 6.97	4
4.46	1,2,4-trichlorobenzene (120-82-1)	No	No	Yes	Concentration	µg/L	1 U			4	0.5 U	4
					Mass	g	< 2.04			4	< 1.02	4
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	No	No	Yes	Concentration	µg/L	0.02 U			2	0.01 U	2
					Mass	g	< 0.04			2	< 0.02	2
5.2	α-BHC (319-84-6)	No	No	Yes	Concentration	µg/L	0.031 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.3	β-BHC (319-85-7)	No	No	Yes	Concentration	µg/L	0.1 U			2	0.04 U	2
					Mass	g	< 0.2			2	< 0.08	2
5.4	γ-BHC (58-89-9)	No	No	Yes	Concentration	µg/L	0.03 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.5	δ-BHC (319-86-8)	No	No	Yes	Concentration	µg/L	0.031 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.6	Chlordane (57-74-9)	No	No	Yes	Concentration	µg/L	0.52 U			1	0.27 U	1
					Mass	g	< 1.06			1	< 0.55	1
5.7	4,4'-DDT (50-29-3)	No	No	Yes	Concentration	µg/L	0.03 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.8	4,4'-DDE (72-55-9)	No	No	Yes	Concentration	µg/L	0.041 U			2	0.02 U	2
					Mass	g	< 0.08			2	< 0.04	2
5.9	4,4'-DDD (72-54-8)	No	No	Yes	Concentration	µg/L	0.04 U			2	0.02 U	2
					Mass	g	< 0.08			2	< 0.04	2
5.10	Dieldrin (60-57-1)	No	No	Yes	Concentration	µg/L	0.021 U			2	0.01 U	2
					Mass	g	< 0.04			2	< 0.02	2
5.11	α-endosulfan (115-29-7)	No	No	Yes	Concentration	µg/L	0.03 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.12	β-endosulfan (115-29-7)	No	No	Yes	Concentration	µg/L	0.03 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.13	Endosulfan sulfate (1031-07-8)	No	No	Yes	Concentration	µg/L	0.03 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.14	Endrin (72-20-8)	No	No	Yes	Concentration	µg/L	0.1 U			2	0.04 U	2
					Mass	g	< 0.2			2	< 0.08	2
5.15	Endrin aldehyde (7421-93-4)	No	No	Yes	Concentration	µg/L	0.03 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.16	Heptachlor (76-44-8)	No	No	Yes	Concentration	µg/L	0.03 U			2	0.01 U	2
					Mass	g	< 0.06			2	< 0.02	2
5.17	Heptachlor epoxide (1024-57-3)	No	No	Yes	Concentration	µg/L	0.1 U			2	0.04 U	2
					Mass	g	< 0.2			2	< 0.08	2
5.18	PCB-1242 (53469-21-9)	No	No	Yes	Concentration	µg/L	0.52 U			1	0.27 U	1
					Mass	g	< 1.06			1	< 0.55	1
5.19	PCB-1254 (11097-69-1)	No	No	Yes	Concentration	µg/L	0.52 U			1	0.27 U	1
					Mass	g	< 1.06			1	< 0.55	1
5.20	PCB-1221 (11104-28-2)	No	No	Yes	Concentration	µg/L	0.52 U			1	0.27 U	1
					Mass	g	< 1.06			1	< 0.55	1
5.21	PCB-1232 (11141-16-5)	No	No	Yes	Concentration	µg/L	0.52 U			1	0.27 U	1
					Mass	g	< 1.06			1	< 0.55	1
5.22	PCB-1248 (12672-29-6)	No	No	Yes	Concentration	µg/L	0.52 U			1	0.27 U	1
					Mass	g	< 1.06			1	< 0.55	1
5.23	PCB-1260 (11096-82-5)	No	No	Yes	Concentration	µg/L	0.52 U			1	0.27 U	1
					Mass	g	< 1.06			1	< 0.55	1
5.24	PCB-1016 (12674-11-2)	No	No	Yes	Concentration	µg/L	0.52 U			1	0.27 U	1
					Mass	g	< 1.06			1	< 0.55	1
5.25	Toxaphene (8001-35-2)	No	No	Yes	Concentration	µg/L	1 U			2	0.4 U	2
					Mass	g	< 2.04			2	< 0.82	2

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

2 Analysis for Total Recoverable Mercury must be performed utilizing the low-level, USEPA Method 1631E.

Additional Notes:

U Compound was analyzed for but not detected. The value shown with the "U" qualifier is the laboratory Reporting Limit.

J Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

T Indicates that a quality control parameter has exceeded laboratory limits.

For analytes with both detections and non-detection results, the maximum daily discharge was calculated using the maximum of the detection values.

For analytes with both detections and non-detection results, the intake average was calculated using the average of the detection values and, for non-detections, half of the Reporting Limit.

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint Petroleum Remediation Project	Outfall #002

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))1

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence		Units (specify)		Effluent				Intake (Optional)	
		Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
	Check here if you believe all pollutants on Table C to be ***present*** in your discharge from the noted outfall. You need *not* check the "Believed Present" box for each pollutant.										
	Check here if you believe all pollutants on Table C to be ***absent*** in your discharge from the noted outfall. You need *not* check the "Believed Absent" box for each pollutant.										
1.	Bromide (24959-67-9)	No	Yes	Concentration	µg/L						
				Mass	g						
2.	Chlorine, total residual	No	Yes	Concentration	µg/L						
				Mass	g						
3.	Color	No	Yes	Concentration	µg/L						
				Mass	g						
4.	Fecal coliform	No	Yes	Concentration	µg/L						
				Mass	g						
5.	Fluoride (16984-48-8)	No	Yes	Concentration	µg/L						
				Mass	g						
6	Nitrate-nitrite	Yes	No	Concentration	µg/L	960			1	1,000	1
				Mass	g	1962			1	2044	1
7.	Nitrogen, total organic (as N)	Yes	No	Concentration	µg/L	1,300			4	1,178	4
				Mass	g	2,657			4	2,407	4
8.	Oil and grease	Yes	No	Concentration	µg/L	2300 J			4	2,175	4
				Mass	g	4,701			4	4,445	4
9.	Phosphorus (as P), total (7723-14-0)	Yes	No	Concentration	µg/L	110			1	37.0	1
				Mass	g	225			1	75.6	1
10.	Sulfate (as SO4) (14808-79-8)	Yes	No	Concentration	µg/L	140,000			4	117,500	4
				Mass	g	286,146			4	240,158	4
11.	Sulfide (as S)	No	Yes	Concentration	µg/L						
				Mass	g						
12.	Sulfite (as SO3) (14265-45-3)	No	Yes	Concentration	µg/L						
				Mass	g						
13.	Surfactants	No	Yes	Concentration	µg/L						
				Mass	g						
14.	Aluminum, total (7429-90-5)	Yes	No	Concentration	µg/L	42			4	15.63 U	4
				Mass	g	86			4	< 31.95	4
15.	Barium, total (7440-39-3)	Yes	No	Concentration	µg/L	220			4	243	4
				Mass	g	450			4	496	4
16.	Boron, total (7440-42-8)	No	Yes	Concentration	µg/L						
				Mass	g						
17.	Cobalt, total (7440-48-4)	Yes	No	Concentration	µg/L	1.8			4	1.93	4
				Mass	g	3.68			4	3.94	4
18.	Iron, total (7439-89-6)	Yes	No	Concentration	µg/L	1,800			4	4,975	4
				Mass	g	3,679			4	10,168	4
19.	Magnesium, total (7439-95-4)	Yes	No	Concentration	µg/L	50,000			4	48,500	4
				Mass	g	102,195			4	99,129	4
20.	Molybdenum, total (7439-98-7)	No	Yes	Concentration	µg/L						
				Mass	g						
21.	Manganese, total (7439-96-5)	Yes	No	Concentration	µg/L	2,100			4	2,250	4
				Mass	g	4,292			4	4,599	4
22.	Tin, total (7440-31-5)	No	Yes	Concentration	µg/L						
				Mass	g						
23.	Titanium, total (7440-32-6)	No	Yes	Concentration	µg/L						
				Mass	g						
24.	**Radioactivity**										
	Alpha, total	No	Yes	Concentration							
				Mass							
	Beta, total	No	Yes	Concentration							
				Mass							
	Radium, total	No	Yes	Concentration							
				Mass							
	Radium 226, total	No	Yes	Concentration							
				Mass							

1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

Additional Notes:

U Compound was analyzed for but not detected. The value shown with the "U" qualifier is the laboratory Reporting Limit.

J Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

For analytes with both detections and non-detection results, the maximum daily discharge was calculated using the maximum of the detection values.

For analytes with both detections and non-detection results, the intake average was calculated using the average of the detection values and, for non-detections, half of the Reporting Limit.

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))1

	Pollutant	Presence or Absence		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)		
1.	Asbestos	No	Yes		
2.	Acetaldehyde	No	Yes		
3.	Allyl alcohol	No	Yes		
4.	Allyl chloride	No	Yes		
5.	Amyl acetate	No	Yes		
6.	Aniline	No	Yes		
7.	Benzonitrile	No	Yes		
8.	Benzyl chloride	No	Yes		
9.	Butyl acetate	No	Yes		
10.	Butylamine	No	Yes		
11.	Captan	No	Yes		
12.	Carbaryl	No	Yes		
13.	Carbofuran	No	Yes		
14.	Carbon disulfide	No	Yes		
15.	Chlorpyrifos	No	Yes		
16.	Coumaphos	No	Yes		
17.	Cresol	No	Yes		
18.	Crotonaldehyde	No	Yes		
19.	Cyclohexane	No	Yes	Not present in effluent samples, present in influent	Influent (avg) = 64.5 ug/L
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	No	Yes		
21.	Diazinon	No	Yes		
22.	Dicamba	No	Yes		
23.	Dichlobenil	No	Yes		
24.	Dichlone	No	Yes		
25.	2,2-dichloropropionic acid	No	Yes		
26.	Dichlorvos	No	Yes		
27.	Diethyl amine	No	Yes		
28.	Dimethyl amine	No	Yes		
29.	Dintrobenzene	No	Yes		
30.	Diquat	No	Yes		
31.	Disulfoton	No	Yes		
32.	Diuron	No	Yes		
33.	Epichlorohydrin	No	Yes		
34.	Ethion	No	Yes		
35.	Ethylene diamine	No	Yes		
36.	Ethylene dibromide	No	Yes		
37.	Formaldehyde	No	Yes		
38.	Furfural	No	Yes		
39.	Guthion	No	Yes		
40.	Isoprene	No	Yes		
41.	Isopropanolamine	No	Yes		
42.	Kelthane	No	Yes		
43.	Kepone	No	Yes		
44.	Malathion	No	Yes		
45.	Mercaptodimethur	No	Yes		
46.	Methoxychlor	No	Yes		
47.	Methyl mercaptan	No	Yes		
48.	Methyl methacrylate	No	Yes		
49.	Methyl parathion	No	Yes		
50.	Mevinphos	No	Yes		
51.	Mexacarbate	No	Yes		
52.	Monoethyl amine	No	Yes		
53.	Monomethyl amine	No	Yes		
54.	Naled	No	Yes		
55.	Naphthenic acid	No	Yes		
56.	Nitrotoluene	No	Yes		
57.	Parathion	No	Yes		
58.	Phenolsulfonate	No	Yes		
59.	Phosgene	No	Yes		
60.	Propargite	No	Yes		
61.	Propylene oxide	No	Yes		
62.	Pyrethrins	No	Yes		
63.	Quinoline	No	Yes		
64.	Resorcinol	No	Yes		
65.	Strontium	No	Yes		
66.	Strychnine	No	Yes		
67.	Styrene	No	Yes		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	No	Yes		
69.	TDE (tetrachlorodiphenyl ethane)	No	Yes		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic	No	Yes		
71.	Trichlorofon	No	Yes		
72.	Triethanolamine	No	Yes		
73.	Triethylamine	No	Yes		
74.	Trimethylamine	No	Yes		
75.	Uranium	No	Yes		

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint Petroleum Remediation Project	Outfall #002

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))1

	Pollutant	Presence or Absence		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)		
76.	Vanadium	No	Yes		
77.	Vinyl acetate	No	Yes		
78.	Xylene	Yes	No	Not present in effluent samples, present in influent	Influent (avg): 69.75 ug/L
79.	Xylenol	No	Yes		
80.	Zirconium	No	Yes		

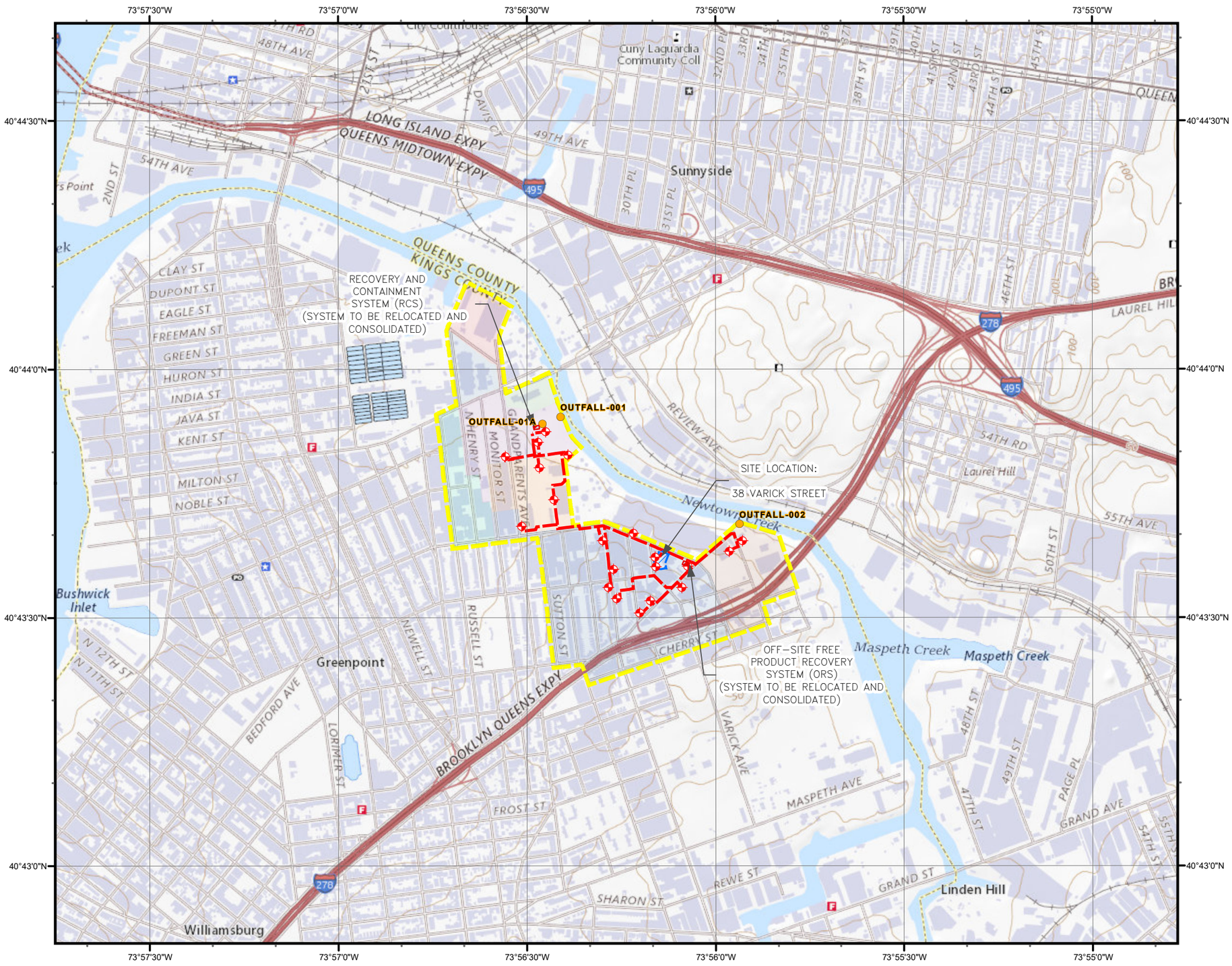
1 Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

DEC Identification Number	SPDES Permit Number	Facility Name	Outfall Number
2-6101-00107-0026	NY 0267724	ExxonMobil Greenpoint Petroleum Remediation Project	Outfall #002

TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence		Results of Screening Procedure
		Believed Present (Input "Yes" or "No" only)	Believed Absent (Input "Yes" or "No" only)	
2,3,7,8-TCDD	No	No	Yes	

FIGURES



LEGEND

- ACTIVE DUAL-PUMP RECOVERY WELL LOCATION AND DESIGNATION
- OUTFALL-001 OUTFALL
- GROUNDWATER REMEDIATION SYSTEM PIPING
- SITE LOCATION
- TREATMENT SYSTEM LOCATION
- EMGPRP SITE BOUNDARY

NOTES

1. BASEMAP SOURCE: USGS Imagery Topo is a tile cache base map

1,250 0 1,250'

Service Layer Credits: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed April, 2023.

V:\GIS\PROJECTS\0172E\0030E\505\10172.0030Y5051.1.MXD

Title:

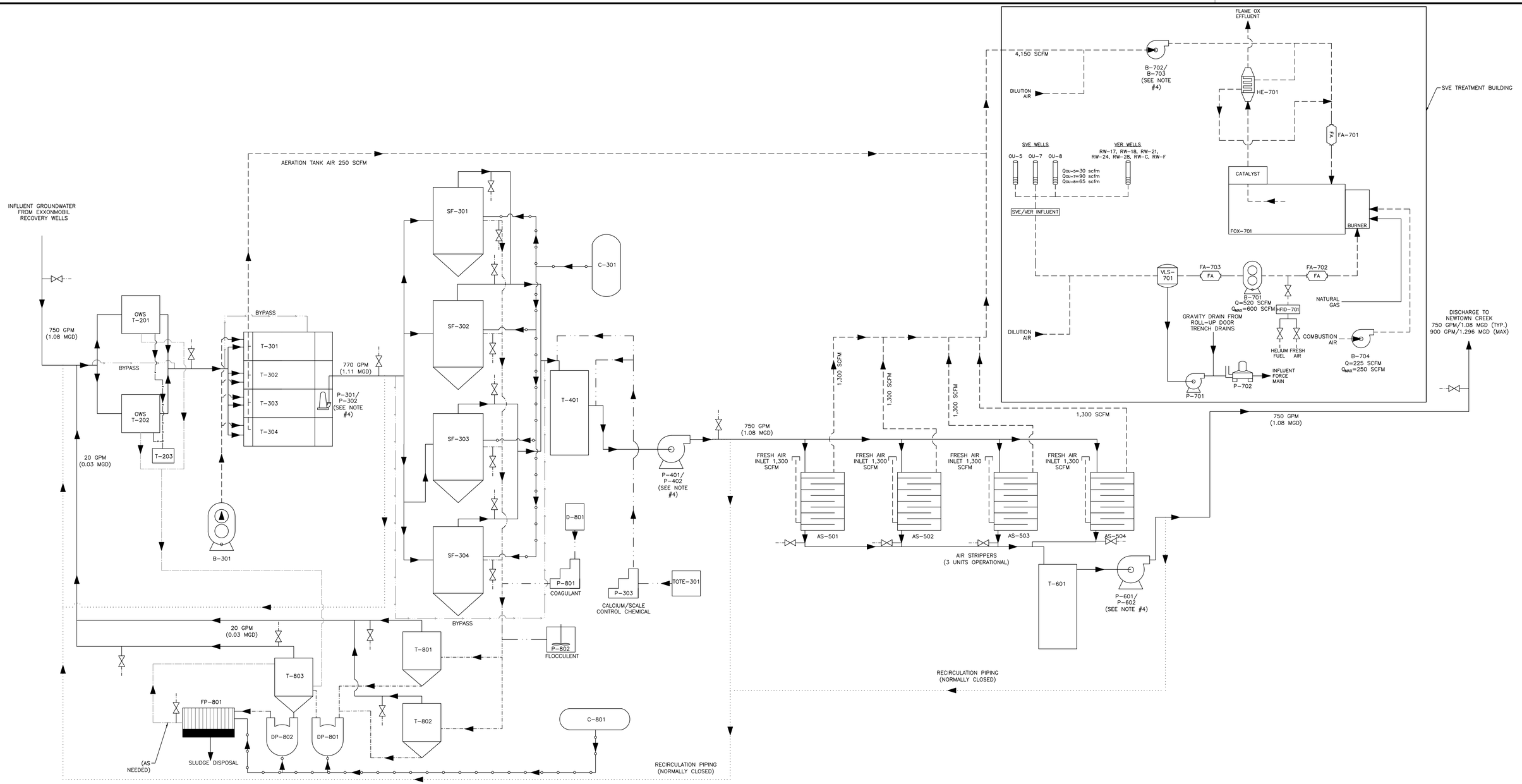
EMGPRP FREE-PRODUCT RECOVERY SYSTEM

EXXONMOBIL
GREENPOINT PETROLEUM REMEDIATION PROJECT
GREENPOINT, BROOKLYN, NEW YORK

Prepared for: EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: A.P.	Date: 12/05/23	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	1A
Project Mgr: C.L.	Project: 0172.0030Y090	
File: 0172.0030Y5051.1.mxd		



LEGEND

- PROCESS WATER STREAM
- AIR STREAM
- CHEMICAL FEED LINE
- SAND FILTER REJECT LINE
- BYPASS LINE
- FILTRATE WATER AND OWS SLUDGE LINE (AS NEEDED)
- RECIRCULATION PIPING (NORMALLY CLOSED)
- PRODUCT RECOVERY LINE
- COMPRESSED AIR LINE

MGD MILLION GALLONS PER DAY
GPM GALLONS PER MINUTE
SCFM STANDARD CUBIC FEET PER MINUTE
HFID HYDROCARBON FLAME IONIZATION DETECTOR

- TRANSFER PUMP
- SUBMERSIBLE SUMP PUMP
- ROTARY POSITIVE DISPLACEMENT BLOWER
- AIR-OPERATED DIAPHRAGM PUMP
- SAMPLE PORT
- FLAME ARRESTOR
- HEAT EXCHANGER
- BLOWER
- VAPOR-LIQUID SEPERATOR
- SUBMERSIBLE TRANSFER PUMP
- POLYMER FEED SYSTEM

	EQUIPMENT DESIGNATIONS
ID	DESCRIPTION
T-201/202	OIL/WATER SEPARATOR TANK 201/202
T-203	PRODUCT RECOVERY HOLDING TANK
B-301	AERATION BLOWER (ROTARY POSITIVE DISPLACEMENT) 301
T-30X	IN-GROUND EQUALIZATION/AERATION TANK X
P-301/302	SUBMERSIBLE TRANSFER PUMP 301/302
TOTE-301	CALCIUM/SCALE CONTROL CHEMICAL STORAGE TOTE
P-303	CHEMICAL CONTROL PUMP
SF-30X	SAND FILTER X
C-301	5 HORSEPOWER (HP) COMPRESSOR
T-401	SAND FILTER FILTRATE TRANSFER TANK
P-401/402	FILTRATE TRANSFER PUMP 401/402
AS-50X	AIR STRIPPER X
T-601	EFFLUENT EQUALIZATION TANK
P-601/602	EFFLUENT PUMP 601/602
FOX-701	FLAME-OX UNIT 701
HE-701	HEAT EXCHANGER 701
FA-70X	FLAME ARRESTOR X
VLS-701	VAPOR-LIQUID SEPARATOR 701
B-701	FLAME OX BLOWER (ROTARY POSITIVE DISPLACEMENT) 701
B-702/703	FLAME OX BLOWER 702-703
HFID-701	HYDROCARBON FLAME IONIZATION DETECTOR 701
P-701	VLS CENTRIFUGAL PUMP 701
P-702	VLS/TRENCH DRAIN SUBMERSIBLE PUMP 702
P-801	COAGULANT PUMP
D-801	COAGULANT STORAGE DRUM
P-802	POLYMER FEED SYSTEM FLOCCULENT PUMP
C-801	20 HORSEPOWER (HP) COMPRESSOR
T-801/802	SAND FILTER BACKWASH SOLIDS COLLECTION TANK 801/802
T-803	SAND FILTER BACKWASH SLUDGE THICKENING TANK 803
DP-801/802	AIR-OPERATED DIAPHRAGM PUMP 801/802
FP-801	FILTER PRESS

NOTES

1. BYPASS PIPING IS SHOWN PER INSTRUCTIONS BUT IS NOT UTILIZED DURING NORMAL SYSTEM OPERATION.
2. PRIMARY TREATMENT CANNOT BE BYPASSED UNDER ANY CIRCUMSTANCES.
3. THE GROUNDWATER TREATMENT SYSTEM IS DESIGNED TO OPERATE USING THREE (3) AIR STRIPPING UNITS DURING NORMAL SYSTEM OPERATION, AND IS EQUIPPED WITH A FOURTH AIR STRIPPING UNIT TO ACCOMMODATE ADDITIONAL FLOW AND TO REDUCE DOWNTIME DURING NORMAL CLEANING AND MAINTENANCE ACTIVITIES.
4. ONE PUMP IN OPERATION DURING NORMAL OPERATING CONDITIONS, A SECOND PUMP IS PROVIDED, IN PARALLEL, FOR SURGE AND MAX CAPACITY OPERATIONS.

Title:

PROCESS FLOW DIAGRAM SYSTEM CONSOLIDATION PROJECT

EXXONMOBIL GREENPOINT PETROLEUM REMEDIATION PROJECT

Prepared for:

EXXONMOBIL OIL CORPORATION

ROUX

Compiled by: MMH	Date: 11/13/2023
Prepared by: MMH	Scale: NOT TO SCALE
Project Mgr: JK	Project: 0172.0030Y093
File: MMH 0172.0030E4731.01 (VARICK).DWG	

FIGURE 1B

ATTACHMENT 1A

ATTACHMENT 1A

ADDITIONAL INFORMATION IN SUPPORT OF FORM NY-2C

Part 1

Section 6.1 Existing Environmental Permits:

The below table includes additional information requested relating to active environmental Permits associated with this project.

Permit	Permit Number	Description	Agency/ Regulator
SPDES ECL Article 17	**SPDES #:** NY-0267724 **DEC #:** 2-6101-00107-00026	Greenpoint Remediation Project Effluent Discharge to Newtown Creek via Outfall 001(via Outfall 01A) and Outfall 002.	NYSDEC
Long Island Well Permit ECL Article 15, Title 15	**DEC #:** 2-6101-00107-00027	Greenpoint Remediation Project for withdrawal of up to 1,552,000 gpd to allow for utilization of RWs (23 listed)	NYSDEC
PBS Certificate	2-603027	Petroleum Bulk Storage for On-Site Free-Product Recovery System ASTs: DG, RT-1, RT-12, RT-14, RT-15, RT-4R, T-36	NYSDEC
PBS Certificate	2-601224	Petroleum Bulk Storage for Off-Site Free-Product Recovery System UST-A	NYSDEC
PBS Certificate	2-601226	Petroleum Bulk Storage for Off-Site Free-Product Recovery System UST-C	NYSDEC
PBS Certificate	2-601227	Petroleum Bulk Storage for Off-Site Free-Product Recovery System UST-D1 and UST-D2	NYSDEC
PBS Certificate	2-601228	Petroleum Bulk Storage for Off-Site Free-Product Recovery System UST-F	NYSDEC
PBS Certificate	2-610887	Petroleum Bulk Storage for Off-Site Free-Product Recovery System UST-H	NYSDEC
PBS Certificate	2-610772	Petroleum Bulk Storage for Off-Site Free-Product Recovery System UST-K	NYSDEC
FDNY Bulk Oil Storage Permit	Account #: 08014573	ASTs: DG, RT-1, RT-12, RT-14, RT-15, RT-4R, T-36	FDNY
FDNY Bulk Oil Storage Permit	Account #: 96060132	4000-gallon tank for Off-Site Free-Product Recovery System UST-A	FDNY
FDNY Bulk Oil Storage Permit	Account # 95052585	4000-gallon tank for Off-Site Free-Product Recovery System UST-C	FDNY
FDNY Bulk Oil Storage Permit	Account # 95052551	Two 4,000-gallon tanks for Off-Site Free-Product Recovery System UST-D1 and UST-D2 A/C UP TO 3 UNITS	FDNY
FDNY Bulk Oil Storage Permit	Account # 95052577	4000-gallon tank for Off-Site Free-Product Recovery System UST-F	FDNY

ATTACHMENT 1A

ADDITIONAL INFORMATION IN SUPPORT OF FORM NY-2C

Permit	Permit Number	Description	Agency/ Regulator
FDNY Bulk Oil Storage Permit	Account # 28192490	4000-gallon tank for Off-Site Free-Product Recovery System UST-H	FDNY
FDNY Bulk Oil Storage Permit	Account # 28079366	4000-gallon tank for Off-Site Free-Product Recovery System UST-K	FDNY
NYCDEP Sewer Dewatering Permit	C002300177	Sand Filter Reject Water Sewer Discharge Case #C-2384	NYCDEP
NYCDEP Air Permit	PB023811	Certificate of Operation: SVE Effluent	NYCDEP
NYCDEP Air Permit	PB023611	Certificate of Operation: RCS Effluent	NYCDEP
NYCDEP Air Permit	PB038214	Industrial Combustion Registration (Emergency Generator Air Permit)	NYCDEP

Modification to Long Island Well Permit (DEC #2-6101-00107-00027)

It is important to note that two groundwater extraction wells (RW-16 and RW-29) will be relocated prior to start-up of the proposed new system. A Long Island Well permit modification will be submitted separate from this SPDES modification to reflect the revised locations of the groundwater extraction wells. This will be submitted for consideration following NYSDEC approval of the Recovery Well RW-16 and RW-29 Relocation Request Letter submitted by Roux on September 18, 2023.

ATTACHMENT 1A

ADDITIONAL INFORMATION IN SUPPORT OF FORM NY-2C

Part 2

Section 3.1 Treatment Units:

In addition to the information provided in this section, the following specifications are provided for each proposed treatment unit contributing the final effluent discharge water quality.

Outfall Number: 002						
Treatment Units	**Treatment used for the removal of**	**Size**	**Flow Rate (MGD)**	**Retention Time (min)**	**Code from Table 2C-1**	**Final Disposal of Waste other than by discharge**
Sedimentation (skimming) Oil Water Separator Parkson Corporation (Model No. SRC 500)	Suspended solids and petroleum	(2) 3,600 gal	1.08	9.6	1-U	• Petroleum stored in local underground storage tank, picked up and recycled at designated facility. • Accumulated sludge is treated by in-ground settling tank and filter press.
Chemical Oxidation - Aeration (in-ground tank)	Iron, manganese, and select metals via oxidation / precipitation	(3) 3,300-gal Chamber	1.08	13.5	2-B	• No additional waste generated
Equalization/ Settling (in-ground tank)	Iron, manganese, and select metals via precipitation settling	(3) 16,700-gal Chamber	1.08	67.2	1-U	• Accumulated sludge is treated by filter press.
Rapid Sand Filtration Sand Filtration Parkson Corporation (Model 38DBTF)	Oxidized metals and suspended solids	(4) 260 gpm ea.	1.08	17.5	1-R	• Backwash sent through two, 2,600-gallon settling tanks (with flocculant and coagulant) to remove solids (see settling tank description below)
Filtrate Tank	Mixing/equalization	6,000-gal	1.08	4.0	1-R	• No additional waste generated
Unlisted Process Addition scale inhibitor (Redux-375® chemical)	Scale inhibitor	Variable	1.08	N/A	6-A	• No additional waste generated
Injection of Coagulant (Redux E50)	Suspended solids	Variable	0.03	N/A	2-D	• No additional waste generated

ATTACHMENT 1A

ADDITIONAL INFORMATION IN SUPPORT OF FORM NY-2C

Outfall Number: 002						
Treatment Units	**Treatment used for the removal of**	**Size**	**Flow Rate (MGD)**	**Retention Time (min)**	**Code from Table 2C-1**	**Final Disposal of Waste other than by discharge**
Injection of Flocculant (Redux P-853)	Suspended solids	Variable	0.03	N/A	1-G	• No additional waste generated
Settling Tank (backwash)	Suspended solids	(2) 2,600-gal	0.03	144	5-L	• Sludge is sent to sludge thickening tank and filter press for dewatering (see below description). Treated backwash water is then reintroduced into the influent stream of the main treatment system.
Sludge Thickening Tank (backwash)	Suspended solids	2600-gal	Variable	N/A	5-L	• Thickened sludge is sent to the filter press for further dewatering. Treated backwash water is then reintroduced into the influent stream of the main treatment system.
Filter Press (Evoqua Model - 800G32-47-24DYLW)	Sludge	24 ft^3	Variable	N/A	5-R	• Dewatered sludge (filter cake) is collected in dedicated 10-yard containers for pick-up and disposal at designated facilities. Filtrate water is then reintroduced into the influent stream of the main treatment system.
Air Stripping QED EZ-Tray Air Stripper	Volatile organic compounds/semi-volatile organic compound removal	(3)[1] 250 gpm / 1,300 scfm ea.	1.08	2.9	1-Y	• Process air treated by Flame-Ox
Effluent Tank	Mixing/equalization	6,000-gal	1.08	4.5	1-O	• No additional waste generated
Discharge	Discharge to Surface water	6" discharge	1.08	--	4-A	• No additional waste generated

[1] An additional air stripper unit (i.e., four total units) is present for use during surge capacity flow (i.e., up to 900 gpm).

ATTACHMENT 1A

ADDITIONAL INFORMATION IN SUPPORT OF FORM NY-2C

Continued treatment of water from remediation activities

As identified in the cover letter accompanying this SPDES renewal, ExxonMobil wishes to continue to process and treat water generated by Site remediation activities using the existing treatment facilities, as allowed by the current SPDES Permit from the note included on Page 7 of the current SPDES Permit:

> *"NOTE: Treatment of periodic maintenance/wash waters, monitoring well purge water, excavation dewatering fluids, secondary containment drainage, and bottom water from recovered product storage tanks associated with the remediation system may be treated at the appropriate wastewater treatment systems, limits must be maintained and the resultant discharge must not cause or contribute to a violation of New York State Water Quality Standards."*

These water sources generated during EMGPRP remediation activities are in addition to the groundwater extracted by the existing recovery well system. ExxonMobil considers it critical to continue to be authorized to treat these remediation water sources at the existing treatment systems, and respectfully requests that the above note, or similar authorization, be included on the renewed SPDES permit.

ATTACHMENT 1B

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

SPDES DISCHARGE PERMIT
Detailed Mixing Zone Form

Clear Form

Purpose & Instructions

The following information will inform the Department's review of your SPDES permit and the resulting effect on the receiving waterbody. Complete the information (one form for each outfall) based on either field observations or schematics/design drawings to the best of your ability. Please see the Mixing Zone Guidance for additional instructions. If an item is unavailable or non-applicable, please describe. Submit with the NY-2A or NY-2C Application Form to SPDESapp@dec.ny.gov.

Facility Name: ExxonMobil Greenpoint Remediation Project SPDES No.: 0267724 Outfall #: 002

NYSDEC Permit Writer: Kirsten Jedd-Barry Receiving Waterbody Class: SD

Email: kirsten.jedd-barry@dec.ny.gov Phone No.: (518) 402-8124

Observation Information

Name & Title of Observer: Alex Policastro Date of Observation: 12/21/2022

Phone Number: (631) 630-2383 Email: apolicastro@rouxinc.com

Name of Receiving Waterbody: Newtown Creek

Weather conditions at time of observation (describe any recent rain/melt events):

None

Avg. Width (ft): 220.0 Avg. Depth (ft): 21.0 Local Depth at Outfall (ft): 2.0 Source: Newtown Creek RIR 2023

Has the receiving waterbody run dry in the last 5 years? ☐Yes ■No

Are tidal conditions present? ■Yes ☐No

Measured Velocity (fps): 0.70 Source or Method: Newtown Creek RIR 2023

Receiving Water Information

All Receiving Waters

Surface Temperature (ºF): 51.5 Bottom Temperature (if depth >10 ft) (ºF): 51.3

Lakes: If receiving waterbody is a lake, attach any available summer and/or winter temperature data.

Describe seasonal variability of receiving waterbody (low-flow conditions, nearby dams, canal operations, stratification):

The Newtown Creek is a tidal influenced estuary and is directly influenced by the tidal flows of the East River. The freshwater flow to the Newtown Creek derives from groundwater, stormwater, and wastewater discharges. The Newtown Creek is approximately 3.8 miles long and feeds into the East River between the neighborhoods of Greenpoint, Brooklyn and Long Island City, Queens. Currently, factories and commercial facilities operate along the creek.

Saline Waterbody

If receiving waterbody is saline (Class SA, SB, SC, SD, I) density information is required.

Surface Density (kg/m^3): 1,002.00 Bottom Density (kg/m^3): 1,006.00

Source of Density Information: field measurement

■Additional information regarding the receiving waterbody is attached (i.e. temperature/ tidal/ density studies).

Effluent Discharge Information

Temperature (ºF): 72.5 AND / OR Density (kg/m^3): Source: Field Measurement

Outfall Location & Configuration

Outfall #: 002 Location at end of pipe: Latitude: 40.728111 Longitude: -73.932349

Describe the outfall (location, size, configuration, condition of the structure):

Outfall 002 is located at the norther terminus of Meeker Ave. The Piping associated with Outfall 002 is constructed of 6" Dia PVC and runs beneath Meeker Avenue before discharging into Newtown Creek. The Pipe penetrates an existing granite bulkhead before elbowing 90 degree downward into Stone Gabion Baskets (to minimize turbidity) approximately 10' above creek bed.

Please select the option below (1 – 3) that best describes your facility's outfall configuration.

☐ I have attached supporting as-built drawings, sketches, or engineering plans to help describe the outfall.

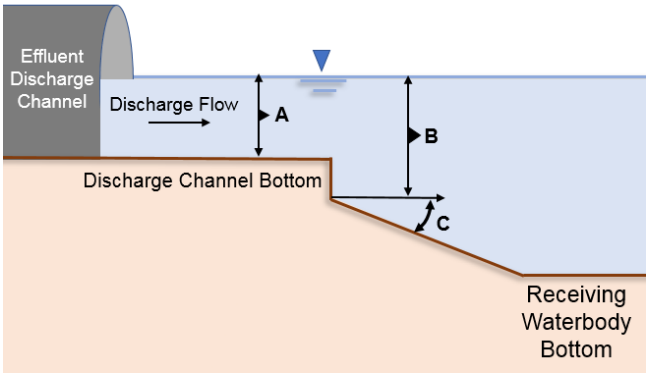
■ **Option #1: Bank Discharge** (outfall pipe/channel does not extend into waterbody).

■ Outfall pipe (36.0 inch diameter) discharges to waterbody at 0.00 feet from bank

- ▣ Outfall pipe is above (or partially above) water surface OR
- ☐ Outfall pipe is submerged and located ____ feet above channel bottom

OR

☐ Channel/ditch (____ft wide x ____ft deep x ____ft long) discharges to waterbody at bank



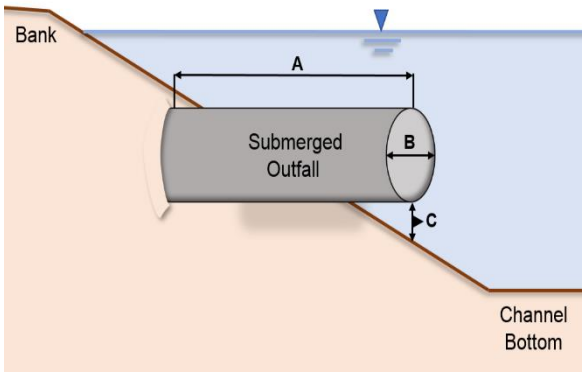
A. Average depth of water in channel (ft): _____

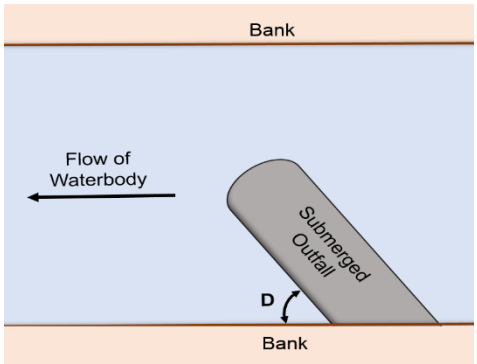
B. Local depth at outfall (ft): _____

C. Bottom slope (degrees): _____

Source: _____

☐ **Option #2: Extended Pipe Discharge** (outfall pipe extends into waterbody) with **no** multiport diffuser.





Source

A. Distance from bank to end of pipe (ft): _____ _____

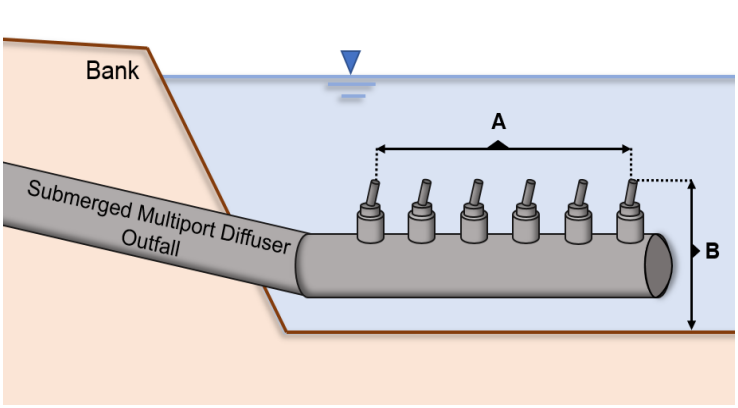
B. Outfall pipe diameter (in): _____ _____

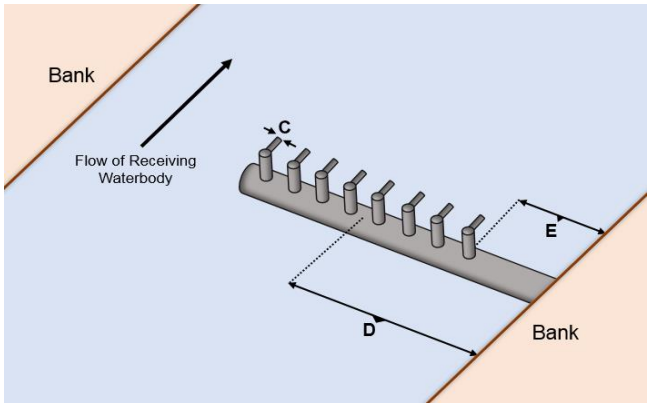
C. Distance from bottom of outfall pipe to immediate bottom of channel (ft): _____ _____

D. Angle between bank and outfall: _____ _____

☐ **Option #3: Extended Pipe Discharge** (outfall pipe extends into waterbody) **with** multiport diffuser.

☐ Attach a detailed drawing of the diffuser (required). If not available, please contact the DEC permit writer.



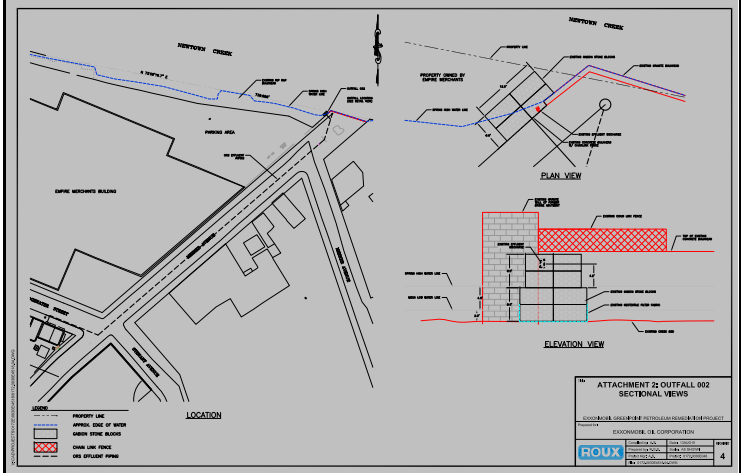


No. of openings: _____ Orientation: ☐ Unidirectional ☐ Alternating Direction: ☐ Line ☐ Fanned out

		Source
A.	Length of diffuser line (ft):	
B.	Height of discharge (top of diffuser nozzle to channel bottom) (ft):	
C.	Diameter of nozzles (in):	
D.	Distance from bank to middle of diffuser line (ft):	
E.	Distance from bank to first diffuser nozzle (ft):	

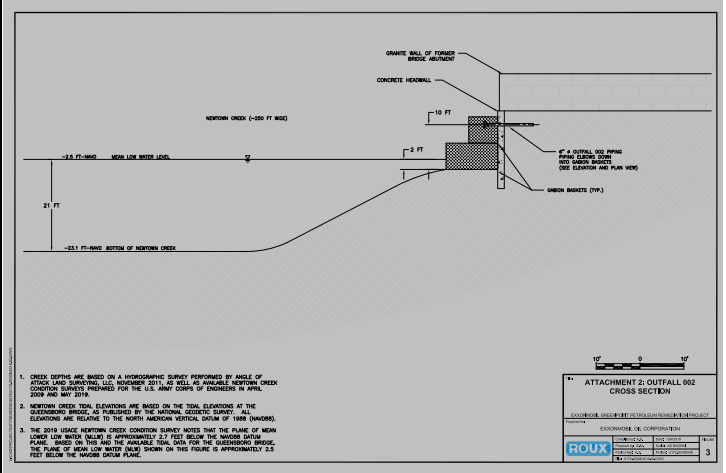
Outfall Photos & Schematics

Upload or attach photos/schematics that depict the outfall (i.e. satellite images, hand sketches, design drawings, view upstream/downstream). **You will be prompted twice to select your photo / schematic.** You may upload more than two photos by repeating this process. They will be included as attachments.



Click to Upload Photos

Section View of Outfall 002



Click to Upload Photos

Cross section of Outfall 002

Description:

Description:

ATTACHMENT 1C

State Pollutant Discharge Elimination System (SPDES)

Application Supplement B
DISCHARGES WITHIN SOLE SOURCE AQUIFERS

Facility Name:	SPDES Number:
ExxonMobil Greenpoint Petroleum Remediation Project	NY 0267724

Your facility may be located in a sole source aquifer area, which is an area designated by Federal or State statutes. Maps showing the designated sole source areas can be found on the internet at: www.epa.gov/Region02/water/aquifer/index.html.

Chapter 663 of the Laws of 1983 added Section 17-0828 to the Environmental Conservation Law which requires that any person seeking a SPDES permit or a renewal hereunder, within an area designated pursuant to any federal or state statute as a sole source aquifer, shall include as a part of the required information, the name and address of all public water purveyors with a service area or portion thereof located within a three mile radius of the applicant's facility.

For purposes of this section "public water purveyor" shall mean any person, partnership, public or private corporation, municipality, or public authority which sells water derived from a sole source aquifer to at least five service connections or at least twenty-five individuals.

---

1. Water Purveyors within a three mile radius of your facility:

Please complete the following information to the best of your knowledge and attach it to your application. Attach additional copies of this sheet as necessary.

	Name	Address
1.	None	N/A
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		

ATTACHMENT 1D

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NO EXPOSURE CERTIFICATION

for Exclusion from SPDES Stormwater Permitting

Instructions: Complete this No Exposure Certification form and submit with the NY-2A/2C application to SPDESapp@DEC.ny.gov.

I. Owner/Facility Information

Owner/Operator Name: ExxonMobil Oil Corporation			
Mailing Address: 38 Varick Street		City/State/Zip: Brooklyn, NY 11222	
Contact Name: Courtney Lind		Phone No.: (631) 232-2600	
Facility Name: ExxonMobil Greenpoint Petroleum Remediation Project			
Street Address: 38 Varick Street		City/State/Zip: Brooklyn, NY 11222	
County: Kings	Latitude: 40.727006	Longitude: -73.935680	SIC Code: 4959
Is there a No Exposure Certification currently on file with the Department? ☑ Yes ☐ No		Enter SPDES ID #: NY 0267724	

II. Exposure Checklist

	Are any of the following materials or activities exposed to precipitation, now or in the foreseeable future? (Please check either "Yes" or "No" in the appropriate box.) If you answer "Yes" to any of these questions (1) through (11), you are not eligible for the no exposure exclusion.	YES	NO
1	Using, storing or cleaning industrial machinery or equipment, and areas where residuals from using, storing or cleaning industrial machinery or equipment remain and are exposed to stormwater		✔
2	Materials or residuals on the ground or in stormwater inlets from spills/leaks		✔
3	Materials or products from past industrial activity		✔
4	Material handling equipment (except adequately maintained vehicles)		✔
5	Materials or products during loading/unloading or transporting activities		✔
6	Materials or products stored outdoors (except final products intended for outside use [e.g., new cars] where exposure to stormwater does not result in the discharge of pollutants)		✔
7	Materials contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers		✔
8	Materials or products handled/stored on roads or railways owned or maintained by the discharger		✔
9	Waste material (except waste in covered, non-leaking containers [e.g., dumpster])		✔
10	Application or disposal of process wastewater (unless otherwise permitted)		✔
11	Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the storm water outflow		✔

III. Certification

I certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of "no exposure" and obtaining an exclusion from SPDES stormwater permitting. I certify under penalty of law that there are no discharges of storm water contaminated by exposure to industrial activities or materials from the industrial facility or site identified in this document (except as allowed under 40 CFR 122.26(g)(2)). I understand that I am obligated to submit a no exposure certification form once every five years to the NPDES permitting authority and, if requested, to the operator of the local municipal separate storm sewer system (MS4) into which the facility discharges (where applicable). I understand that I must allow the SPDES permitting authority, or MS4 operator where the discharge is into the local MS4, to perform inspections to confirm the condition of no exposure and to make such inspection reports publicly available upon request.

Printed Name: Michael Burghardt	Title/Position: US East Supervisor
Signature: Michael Burghardt	Date: 12/11/2023

Clear Form

(4/11/19)

ATTACHMENT 1E

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

CONDITIONAL EXCLUSION CERTIFICATION
for Exclusion from Mercury Permit Limitations

Instructions: Complete this Conditional Exclusion Certification.
Submit completed form to
the Regional Water Engineer and DOWmercury@dec.ny.gov.

I. Permittee/Facility Information

Permittee Name: ExxonMobil Oil Corporation			
Mailing Address: 38 Varick Street		City/State/Zip: Brooklyn, NY 11222	
Contact Name: Courtney Lind		Phone No.: (631) 232-2600	
Facility Name: ExxonMobil Greenpoint Remediation Project			
Street Address: 38 Varick Street		City/State/Zip: Brooklyn, NY 11222	
County: Kings	Latitude: 40.728111	Longitude: -73.932349	SIC Code: 4959

Is there a Conditional Exclusion Certification currently on file with the Department? ☑ Yes ☐ No

Enter SPDES ID #: NY 0267724

II. Exclusion Checklist

	Does the facility have any of the following mercury sources? Please check either "Yes" or "No" in the appropriate box. If you answer "Yes" to any of these questions (1) through (8), you are not eligible for the conditional exclusion.	YES	NO
1	The facility is or receives discharge from 1) individually permitted combined sewer overflow (CSOs) communities and/or 2) Type II sanitary sewer overflow (SSO) facilities		✔
2	One or more effluent samples which exceed 12 ng/L, including samples taken as a result of the SPDES application process		✔
3	1)Internal or tributary waste stream samples exceed the GLCA effluent limitation AND 2) the final effluent samples are less than the GLCA due primarily to dilution by uncontaminated or less contaminated waste streams. Both components of this criterion may include samples taken as a result of the SPDES application process		✔
4	A permit application or other information indicates that mercury is handled on site and could be discharged through outfalls		✔
5	Outfalls which contain legacy mercury contamination		✔
6	The facility's collection system receives discharges from a dental and/or categorical industrial user (CIU) that may discharge mercury		✔
7	The facility accepts hauled wastes		✔
8	The facility is defined as a categorical industry that may discharge mercury. This may also include dentists, universities, hospitals, or laboratories which have their own SPDES permit		✔

III. Certification

I certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of "exclusion" and obtaining an exclusion from mercury permit limitations. I certify under penalty of law that there are no mercury sources at and/or discharging to the facility. I understand that I am obligated to submit a conditional exclusion certification form once every five years to the SPDES permitting authority. I understand that I must allow the SPDES permitting authority to perform inspections to confirm the condition of exclusion and to make such inspection reports publicly available upon request.

Printed Name: Michael Burghardt	Title/Position: US East Supervisor
Signature: Michael Burghardt	Date: 12/11/2023

Clear Form

(12/30/20)

ATTACHMENT 1F

New York State Department of Environmental Conservation
Division of Water
SPDES Permit - **WTC Authorization Request** Instructions Page

(July 2023)

APPLICABILITY:

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SPDES ID: 0267724

Permit Class:

County: Kings

Completing Item 8.b. (Outfall WTC Concentration) - In general, the average mg/L should be determined by dividing the average dosage in 7a by the average flow in 8a and then dividing by 8.34; the maximum mg/L should be determined by dividing the maximum dosage in 7a by the average flow in 8a and then dividing by 8.34; however, for blowdowns which are highly intermittent or are not tributary to a treatment system or some form of equalization, it may be appropriate to factor in the information in item 9 when completing this item.

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ADDITIONAL INFORMATION:

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New York State Department of Environmental Conservation
Division of Water
SPDES Permit - WTC Authorization Request **Page 1 of 2** (July 2023)

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1.a. Date Signed by Permittee - 12/8/23	1.b. Date Signed by WTC Manufacturer - 12/8/23
2.a. Permittee Name - ExxonMobil Oil Corporation	2.b. SPDES No. - NY 0267724
2.c. Contact Name - Michael Burghardt	
3.a. WTC Name - Redux 375	
3.b. WTC Manufacturer - Redux Technology, Div. Azure Water Services, LLC	
4.a. WTC Function - Protects treatment equipment from fouling by calcium carbonate and iron	
4.b. If WTC is a biocide is it NYS registered? Yes No	4.c. Registration Number -
5. WTC Point of Addition - Pre-sand filtration process	
6. Affected Outfall(s) - Outfall 002	
7.a. WTC Daily Dosage: average lbs/day = 180 , maximum lbs/day = 216	
7.b. Dosage Frequency: minutes/day = 1440 , days/week = 7	
8.a. Outfall Flow Rate: average MGD = 1.08 , maximum MGD = 1.30	
8.b. Outfall WTC Concentration: average mg/l = 20 , maximum mg/l = 20	
9.a. System Blowdown Flow Rate: average gpm = N/A , maximum gpm = N/A	
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10.a. WTC Composition - Ingredients/Impurities (note: ingredients/impurities must total to 100%)	10.b. %	10.c. CAS#	10.d. Outfall Concentration
Polymaleic Acid	4.2	26099-09-2	0.84 mg/l
2 phosphono-1,2,4-butanetricarboxylic acid	5.3	37971-36-1	1.06 mg/l
Sodium hydroxide	1.5	1310732	0.30 mg/l
Water	89	7732-18-5	17.80 mg/l
			mg/l
			mg/l
			mg/l

10.e. Intermediate/Final Degradation Products - Water, carbon dioxide, organic acids
11. WTC BOD and COD (lb/lb) - unknown

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2.b. SPDES No. - NY 0267724	
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12. WTC Toxicity Info (most sensitive species) - Attach description of endpoint for each EC50.

12.a. Vertebrate Species	Acute LC50	Acute EC50	Chronic NOEC	Chronic IC25
Cyprinodon variegatus, 96 hr	5,477.2 mg/l	mg/l	mg/l	mg/l
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13. Summarize measures in place to ensure that excessive levels of WTC are not used -

A chemical metering pump, controlled by the System programmable logic controller (PLC), will be utilized to automatically adjust Redux 375 dosage to be proportional to the System process flow rate and maintain a constant WTC concentration in the process water. Operations personnel manually measure and verify chemical feed rate periodically.

14. WTCs to be discontinued when use of this WTC begins – Not Applicable

15. Permittee Certification - I certify under penalty of law that this request and all attachments are, to the best of my knowledge and belief, true, accurate and complete. I also certify that the WTC Usage Requirements and any additional requirements specified in the decision letter I will receive will be adhered to.

PRINT NAME - Michael Burghardt	SIGNATURE - Michael Burghardt
TITLE/COMPANY - US East Supervisor / ExxonMobil Oil Corporation	
TELEPHONE - 201-232-4417	EMAIL - michael.j.burghardt@exxonmobil.com

16. WTC Manufacturer Certification - I certify under penalty of law that Sections 1-4, 10-12 and any additional composition documentation submitted with as part of this request are, to the best of my knowledge and belief, true, accurate and complete.

PRINT NAME - Brad Horn	SIGNATURE - Brad Horn
TITLE/COMPANY - President, Redux Technology	
TELEPHONE - 203-823-1002	EMAIL - bhorn@reduxtech.com

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4.b. If WTC is a biocide is it NYS registered? Yes No	4.c. Registration Number -
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ATTACHMENT 1G

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-221026-1
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

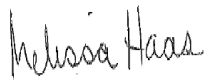
Attn: Matthew Mueller

Melissa Haas

Authorized for release by:
10/27/2020 3:55:03 PM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/27/2020 3:55:03 PM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD 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.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-221026-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: EMGPRP-31097

Report Number: 460-221026-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/20/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions

Per laboratory policy the Trip Blank sample date/time was changed to reflect the latest sample date/time of the sampling event. QAQC_TB (460-221026-2)

Field temperature/pH data was provided by the client.

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Samples ORS-EFFLUENT (460-221026-1) and QAQC_TB (460-221026-2) were analyzed for Volatile Organic Compounds by GC/MS in accordance with EPA Method 624.1. The samples were analyzed on 10/22/2020 and 10/26/2020.

The continuing calibration verification (CCV) associated with batch 460-734016 recovered above the upper control limit for 1,2,3-Trichlorobenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-734016 recovered outside acceptance criteria, low biased, for Methyl iodide. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The laboratory control sample (LCS) for analytical batch 460-734016 recovered outside control limits for the following analyte: Methyl iodide (biased low). This analyte was not detected in the associated samples; therefore, the data have been reported.

Job ID: 460-221026-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

The continuing calibration verification (CCV) associated with batch 460-734818 recovered outside acceptance criteria, low biased, for Methyl iodide. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples ORS-EFFLUENT (460-221026-1) and QAQC_TB (460-221026-2) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 10/22/2020.

No difficulties were encountered during the Volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample ORS-EFFLUENT (460-221026-1) was analyzed for Semivolatile Organic Compounds (GC/MS) in accordance with 625.1. The samples were prepared on 10/21/2020 and analyzed on 10/22/2020.

The continuing calibration verification (CCV) associated with batch 460-733647 recovered above the upper control limit for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, Benzoic acid and 4,6-Dinitro-2-methylphenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for preparation batch 460-733456 and analytical batch 460-733647 recovered outside control limits for the following analytes: 2,4-Dinitrophenol and Benzoic acid. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-733456 and analytical batch 460-733647 recovered outside control limits for the following analytes: Hexachloroethane, n-Decane, Pyridine, Hexachlorobutadiene, 4-Chloroaniline and Aniline.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits due to poor performance. The LCSD associated with batch 460-733456 had (4-Chloroaniline and Aniline) outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other difficulties were encountered during the Semivolatile Organic Compounds (GC/MS) analysis.

All other quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS

Sample ORS-EFFLUENT (460-221026-1) was analyzed for total recoverable metals in accordance with EPA Method 200.8 (ICP/MS). The samples were prepared on 10/23/2020 and analyzed on 10/23/2020 and 10/26/2020.

Lead was detected in method blank MB 460-734126/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MS of sample 460-221019-3 in batch 460-734901.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Nickel exceeded the RPD limit for the duplicate of sample 460-221019-19.

Job ID: 460-221026-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY
Sample ORS-EFFLUENT (460-221026-1) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared and analyzed on 10/22/2020.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

SILICA GEL TREATED (SGT/PETROLEUM HYDROCARBON) AND N-HEXANE EXTRACTABLE MATERIAL (HEM/OIL&GREASE)
Sample ORS-EFFLUENT (460-221026-1) was analyzed for Silica Gel Treated (SGT/Petroleum Hydrocarbon) and N-Hexane Extractable Material (HEM/Oil&Grease) in accordance with EPA SW-846 Method 1664A. The samples were analyzed on 10/23/2020.

Analysis for Hexane Extractable Material (HEM) was performed for the following samples: ORS-EFFLUENT (460-221026-1) and (460-221019-AF-1). Since the HEM result(s) was below the reporting limit (RL), the result(s) for Silica Gel Treated - Hexane Extractable Material (SGT-HEM) was reported as a non-detect. All HEM quality control criteria were met.

No other difficulties were encountered during the SGT-HEM/HEM analysis.

All other quality control parameters were within the acceptance limits.

TURBIDITY
Sample ORS-EFFLUENT (460-221026-1) was analyzed for turbidity in accordance with EPA Method 180.1 - Nephelometric. The samples were analyzed on 10/21/2020.

No difficulties were encountered during the turbidity analysis.

All quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS
Sample ORS-EFFLUENT (460-221026-1) was analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 10/23/2020.

Total Dissolved Solids exceeded the RPD limit for the duplicate of sample 460-221019-19. Refer to the QC report for details.

No other difficulties were encountered during the TDS analysis.

All other quality control parameters were within the acceptance limits.

TOTAL SUSPENDED SOLIDS
Sample ORS-EFFLUENT (460-221026-1) was analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 10/23/2020.

No difficulties were encountered during the TSS analysis.

All quality control parameters were within the acceptance limits.

ANIONS
Sample ORS-EFFLUENT (460-221026-1) was analyzed for anions in accordance with EPA Method 300_ORGFM_28D Anions by Ion

Job ID: 460-221026-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

Chromatograph. The samples were analyzed on 10/26/2020.

The following sample was diluted to bring the concentration of target analytes within the calibration range: ORS-EFFLUENT (460-221026-1). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE PHENOLS

Sample ORS-EFFLUENT (460-221026-1) was analyzed for total recoverable phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 10/26/2020.

No difficulties were encountered during the phenol analysis.

All quality control parameters were within the acceptance limits.

SETTLEABLE SOLIDS

Sample ORS-EFFLUENT (460-221026-1) was analyzed for settleable solids in accordance with SM 2540F. The samples were analyzed on 10/21/2020.

No difficulties were encountered during the settleable solids analysis.

All quality control parameters were within the acceptance limits.

PH

Sample ORS-EFFLUENT (460-221026-1) was analyzed for pH in accordance with SM 4500 H+. The samples were analyzed on 10/25/2020.

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221026-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-EFFLUENT
Lab Sample ID: 460-221026-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	1.1	J	2.0	0.44	ug/L	1		624.1	Total/NA
2-Propanol	9.7	J	10	5.9	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.22	ug/L	1		624.1	Total/NA
t-Butyl alcohol	10		10	8.3	ug/L	1		624.1	Total/NA
Tetrachloroethene	0.95	J	1.0	0.25	ug/L	1		624.1	Total/NA
Tetrahydrofuran	1.3	J	2.0	1.0	ug/L	1		624.1	Total/NA
Trichloroethene	0.93	J	1.0	0.31	ug/L	1		624.1	Total/NA
Methyl tert-butyl ether	7.0		1.0	0.22	ug/L	1		8260D	Total/NA
n-Decane	1.5	J *1	10	1.3	ug/L	1		625.1	Total/NA
Chloride	580000		3200	390	ug/L	10		300.0	Total/NA
Sulfate	110000		4800	1600	ug/L	10		300.0	Total/NA
Aluminum	12	J	40	11	ug/L	1		200.8	Total Recoverable
Arsenic	1.9	J	2.0	0.61	ug/L	1		200.8	Total Recoverable
Barium	220		4.0	1.0	ug/L	1		200.8	Total Recoverable
Calcium	140000		200	22	ug/L	1		200.8	Total Recoverable
Cobalt	1.5	J	4.0	0.19	ug/L	1		200.8	Total Recoverable
Iron	1300		120	17	ug/L	1		200.8	Total Recoverable
Magnesium	48000		200	27	ug/L	1		200.8	Total Recoverable
Manganese	2100		8.0	0.75	ug/L	1		200.8	Total Recoverable
Nickel	3.0	J	4.0	0.84	ug/L	1		200.8	Total Recoverable
Potassium	6700		200	84	ug/L	1		200.8	Total Recoverable
Selenium	1.5	J	2.5	0.39	ug/L	1		200.8	Total Recoverable
Sodium	340000		200	20	ug/L	1		200.8	Total Recoverable
Zinc	4.3	J	16	2.6	ug/L	1		200.8	Total Recoverable
Turbidity	5.4	B	0.50	0.11	NTU	1		180.1	Total/NA
Total Dissolved Solids	1800000		50000	50000	ug/L	1		SM 2540C	Total/NA
pH	8.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.9	HF	0.1	0.1	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: QAQC_TB
Lab Sample ID: 460-221026-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Propanol	32		10	5.9	ug/L	1		624.1	Total/NA
Methylene Chloride	0.40	J	1.0	0.32	ug/L	1		624.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221026-1

Client Sample ID: ORS-EFFLUENT
Date Collected: 10/20/20 09:50
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221026-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/26/20 12:27	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/26/20 12:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/26/20 12:27	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/26/20 12:27	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/26/20 12:27	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/26/20 12:27	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/26/20 12:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/26/20 12:27	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/26/20 12:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/26/20 12:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/26/20 12:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/26/20 12:27	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/26/20 12:27	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/26/20 12:27	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/26/20 12:27	1
1,2-Dichloroethene, Total	**1.1**	**J**	2.0	0.44	ug/L			10/26/20 12:27	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/26/20 12:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/26/20 12:27	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/26/20 12:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/26/20 12:27	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/26/20 12:27	1
1,4-Dioxane	ND		50	28	ug/L			10/26/20 12:27	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/26/20 12:27	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/26/20 12:27	1
2-Hexanone	ND		5.0	2.9	ug/L			10/26/20 12:27	1
2-Propanol	**9.7**	**J**	10	5.9	ug/L			10/26/20 12:27	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/26/20 12:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/26/20 12:27	1
Acetonitrile	ND		10	5.0	ug/L			10/26/20 12:27	1
Benzene	ND		1.0	0.43	ug/L			10/26/20 12:27	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/26/20 12:27	1
Bromobenzene	ND		1.0	0.35	ug/L			10/26/20 12:27	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/26/20 12:27	1
Bromoform	ND		1.0	0.54	ug/L			10/26/20 12:27	1
Bromomethane	ND		1.0	0.45	ug/L			10/26/20 12:27	1
Butyl acetate	ND		2.0	0.33	ug/L			10/26/20 12:27	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/26/20 12:27	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/26/20 12:27	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/26/20 12:27	1
Chloroethane	ND		1.0	0.32	ug/L			10/26/20 12:27	1
Chloroform	ND		1.0	0.33	ug/L			10/26/20 12:27	1
Chloromethane	ND		1.0	0.43	ug/L			10/26/20 12:27	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.22	ug/L			10/26/20 12:27	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/26/20 12:27	1
Cyclohexane	ND		1.0	0.32	ug/L			10/26/20 12:27	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/26/20 12:27	1
Dibromomethane	ND		1.0	0.60	ug/L			10/26/20 12:27	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/26/20 12:27	1
Diisopropyl ether	ND		1.0	0.45	ug/L			10/26/20 12:27	1

Client Sample ID: ORS-EFFLUENT
Date Collected: 10/20/20 09:50
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221026-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl acetate	ND		2.0	0.73	ug/L			10/26/20 12:27	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/26/20 12:27	1
Freon 113	ND		1.0	0.31	ug/L			10/26/20 12:27	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/26/20 12:27	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/26/20 12:27	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/26/20 12:27	1
Methyl iodide	ND		1.0	0.48	ug/L			10/26/20 12:27	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/26/20 12:27	1
Methylene Chloride	ND		1.0	0.32	ug/L			10/26/20 12:27	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/26/20 12:27	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/26/20 12:27	1
n-Heptane	ND		5.0	0.47	ug/L			10/26/20 12:27	1
n-Hexane	ND		1.0	0.69	ug/L			10/26/20 12:27	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/26/20 12:27	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/26/20 12:27	1
o-Xylene	ND		1.0	0.36	ug/L			10/26/20 12:27	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/26/20 12:27	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/26/20 12:27	1
Styrene	ND		1.0	0.42	ug/L			10/26/20 12:27	1
t-Butyl alcohol	**10**		10	8.3	ug/L			10/26/20 12:27	1
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/26/20 12:27	1
Tetrachloroethene	**0.95**	**J**	1.0	0.25	ug/L			10/26/20 12:27	1
Tetrahydrofuran	**1.3**	**J**	2.0	1.0	ug/L			10/26/20 12:27	1
Toluene	ND		1.0	0.38	ug/L			10/26/20 12:27	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/26/20 12:27	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/26/20 12:27	1
Trichloroethene	**0.93**	**J**	1.0	0.31	ug/L			10/26/20 12:27	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/26/20 12:27	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/26/20 12:27	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/26/20 12:27	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/26/20 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*		*10/26/20 12:27*	*1*
Bromofluorobenzene	*108*		*60 - 140*		*10/26/20 12:27*	*1*
Dibromofluoromethane (Surr)	*113*		*60 - 140*		*10/26/20 12:27*	*1*
Toluene-d8 (Surr)	*106*		*60 - 140*		*10/26/20 12:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/22/20 12:35	1
Acetone	ND		5.0	4.4	ug/L			10/22/20 12:35	1
Methyl tert-butyl ether	**7.0**		1.0	0.22	ug/L			10/22/20 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*10/22/20 12:35*	*1*
4-Bromofluorobenzene	*95*		*76 - 120*		*10/22/20 12:35*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 124*		*10/22/20 12:35*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/22/20 12:35*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221026-1

Client Sample ID: ORS-EFFLUENT
Date Collected: 10/20/20 09:50
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221026-1
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10	1.2	ug/L		10/21/20 08:53	10/22/20 02:18	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.2	ug/L		10/21/20 08:53	10/22/20 02:18	1
1,2,4-Trichlorobenzene	ND		2.0	1.3	ug/L		10/21/20 08:53	10/22/20 02:18	1
1,2-Dichlorobenzene	ND		10	0.60	ug/L		10/21/20 08:53	10/22/20 02:18	1
1,2-Diphenylhydrazine	ND		10	0.37	ug/L		10/21/20 08:53	10/22/20 02:18	1
1,3-Dichlorobenzene	ND		10	2.0	ug/L		10/21/20 08:53	10/22/20 02:18	1
1,4-Dichlorobenzene	ND		10	0.52	ug/L		10/21/20 08:53	10/22/20 02:18	1
1,4-Dioxane	ND		10	1.6	ug/L		10/21/20 08:53	10/22/20 02:18	1
1-Methylnaphthalene	ND		4.0	1.1	ug/L		10/21/20 08:53	10/22/20 02:18	1
2,2'-oxybis[1-chloropropane]	ND		10	0.63	ug/L		10/21/20 08:53	10/22/20 02:18	1
2,3,4,6-Tetrachlorophenol	ND		10	0.75	ug/L		10/21/20 08:53	10/22/20 02:18	1
2,4,5-Trichlorophenol	ND		10	0.85	ug/L		10/21/20 08:53	10/22/20 02:18	1
2,4,6-Trichlorophenol	ND		10	0.70	ug/L		10/21/20 08:53	10/22/20 02:18	1
2,4-Dichlorophenol	ND		10	1.2	ug/L		10/21/20 08:53	10/22/20 02:18	1
2,4-Dimethylphenol	ND		10	0.66	ug/L		10/21/20 08:53	10/22/20 02:18	1
2,4-Dinitrophenol	ND	*	20	2.0	ug/L		10/21/20 08:53	10/22/20 02:18	1
2,4-Dinitrotoluene	ND		2.0	1.0	ug/L		10/21/20 08:53	10/22/20 02:18	1
2,6-Dinitrotoluene	ND		2.0	1.4	ug/L		10/21/20 08:53	10/22/20 02:18	1
2-Chloronaphthalene	ND		10	1.2	ug/L		10/21/20 08:53	10/22/20 02:18	1
2-Chlorophenol	ND		10	0.38	ug/L		10/21/20 08:53	10/22/20 02:18	1
2-Methylnaphthalene	ND		10	1.1	ug/L		10/21/20 08:53	10/22/20 02:18	1
2-Methylphenol	ND		10	0.67	ug/L		10/21/20 08:53	10/22/20 02:18	1
2-Nitroaniline	ND		10	0.47	ug/L		10/21/20 08:53	10/22/20 02:18	1
2-Nitrophenol	ND		10	1.9	ug/L		10/21/20 08:53	10/22/20 02:18	1
3,3'-Dichlorobenzidine	ND		10	3.3	ug/L		10/21/20 08:53	10/22/20 02:18	1
3-Nitroaniline	ND		10	2.5	ug/L		10/21/20 08:53	10/22/20 02:18	1
4,6-Dinitro-2-methylphenol	ND		20	3.4	ug/L		10/21/20 08:53	10/22/20 02:18	1
4-Bromophenyl phenyl ether	ND		10	0.75	ug/L		10/21/20 08:53	10/22/20 02:18	1
4-Chloro-3-methylphenol	ND		10	1.2	ug/L		10/21/20 08:53	10/22/20 02:18	1
4-Chloroaniline	ND	* *1	10	1.9	ug/L		10/21/20 08:53	10/22/20 02:18	1
4-Chlorophenyl phenyl ether	ND		10	1.3	ug/L		10/21/20 08:53	10/22/20 02:18	1
4-Methylphenol	ND		10	0.76	ug/L		10/21/20 08:53	10/22/20 02:18	1
4-Nitroaniline	ND		10	1.3	ug/L		10/21/20 08:53	10/22/20 02:18	1
4-Nitrophenol	ND		20	1.7	ug/L		10/21/20 08:53	10/22/20 02:18	1
Acenaphthene	ND		10	1.1	ug/L		10/21/20 08:53	10/22/20 02:18	1
Acenaphthylene	ND		10	0.82	ug/L		10/21/20 08:53	10/22/20 02:18	1
Acetophenone	ND		10	2.5	ug/L		10/21/20 08:53	10/22/20 02:18	1
Aniline	ND	* *1	10	1.1	ug/L		10/21/20 08:53	10/22/20 02:18	1
Anthracene	ND		10	1.3	ug/L		10/21/20 08:53	10/22/20 02:18	1
Benzidine	ND		10	0.70	ug/L		10/21/20 08:53	10/22/20 02:18	1
Benzo[a]anthracene	ND		1.0	0.59	ug/L		10/21/20 08:53	10/22/20 02:18	1
Benzo[a]pyrene	ND		1.0	0.68	ug/L		10/21/20 08:53	10/22/20 02:18	1
Benzo[b]fluoranthene	ND		2.0	1.4	ug/L		10/21/20 08:53	10/22/20 02:18	1
Benzo[g,h,i]perylene	ND		10	1.3	ug/L		10/21/20 08:53	10/22/20 02:18	1
Benzo[k]fluoranthene	ND		1.0	0.67	ug/L		10/21/20 08:53	10/22/20 02:18	1
Benzoic acid	ND	*	50	9.3	ug/L		10/21/20 08:53	10/22/20 02:18	1
Benzyl alcohol	ND		10	0.94	ug/L		10/21/20 08:53	10/22/20 02:18	1
Bis(2-chloroethoxy)methane	ND		10	0.64	ug/L		10/21/20 08:53	10/22/20 02:18	1
Bis(2-chloroethyl)ether	ND		1.0	0.69	ug/L		10/21/20 08:53	10/22/20 02:18	1

Client Sample ID: ORS-EFFLUENT
Lab Sample ID: 460-221026-1
Date Collected: 10/20/20 09:50
Matrix: Water
Date Received: 10/20/20 18:00

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		2.0	1.0	ug/L		10/21/20 08:53	10/22/20 02:18	1
Butyl benzyl phthalate	ND		10	0.85	ug/L		10/21/20 08:53	10/22/20 02:18	1
Carbazole	ND		10	0.68	ug/L		10/21/20 08:53	10/22/20 02:18	1
Chrysene	ND		2.0	0.91	ug/L		10/21/20 08:53	10/22/20 02:18	1
Dibenz(a,h)anthracene	ND		1.0	0.74	ug/L		10/21/20 08:53	10/22/20 02:18	1
Dibenzofuran	ND		10	1.1	ug/L		10/21/20 08:53	10/22/20 02:18	1
Diethyl phthalate	ND		10	0.98	ug/L		10/21/20 08:53	10/22/20 02:18	1
Dimethyl phthalate	ND		10	1.6	ug/L		10/21/20 08:53	10/22/20 02:18	1
Di-n-butyl phthalate	ND		10	0.75	ug/L		10/21/20 08:53	10/22/20 02:18	1
Di-n-octyl phthalate	ND		10	1.4	ug/L		10/21/20 08:53	10/22/20 02:18	1
Diphenyl ether	ND		10	1.2	ug/L		10/21/20 08:53	10/22/20 02:18	1
Fluoranthene	ND		10	0.84	ug/L		10/21/20 08:53	10/22/20 02:18	1
Fluorene	ND		10	0.91	ug/L		10/21/20 08:53	10/22/20 02:18	1
Hexachlorobenzene	ND		1.0	0.91	ug/L		10/21/20 08:53	10/22/20 02:18	1
Hexachlorobutadiene	ND	*1	1.0	0.44	ug/L		10/21/20 08:53	10/22/20 02:18	1
Hexachlorocyclopentadiene	ND		10	1.7	ug/L		10/21/20 08:53	10/22/20 02:18	1
Hexachloroethane	ND	*1	2.0	1.2	ug/L		10/21/20 08:53	10/22/20 02:18	1
Indeno[1,2,3-cd]pyrene	ND		2.0	1.3	ug/L		10/21/20 08:53	10/22/20 02:18	1
Isophorone	ND		10	1.9	ug/L		10/21/20 08:53	10/22/20 02:18	1
Naphthalene	ND		2.0	1.1	ug/L		10/21/20 08:53	10/22/20 02:18	1
n-Decane	**1.5**	**J *1**	10	1.3	ug/L		10/21/20 08:53	10/22/20 02:18	1
Nitrobenzene	ND		2.0	1.6	ug/L		10/21/20 08:53	10/22/20 02:18	1
N-Nitrosodimethylamine	ND		10	0.64	ug/L		10/21/20 08:53	10/22/20 02:18	1
N-Nitrosodi-n-propylamine	ND		2.0	0.98	ug/L		10/21/20 08:53	10/22/20 02:18	1
N-Nitrosodiphenylamine	ND		10	0.89	ug/L		10/21/20 08:53	10/22/20 02:18	1
Pentachlorophenol	ND		20	3.0	ug/L		10/21/20 08:53	10/22/20 02:18	1
Phenanthrene	ND		10	1.5	ug/L		10/21/20 08:53	10/22/20 02:18	1
Phenol	ND		10	1.2	ug/L		10/21/20 08:53	10/22/20 02:18	1
Pyrene	ND		10	1.6	ug/L		10/21/20 08:53	10/22/20 02:18	1
Pyridine	ND	*1	10	5.9	ug/L		10/21/20 08:53	10/22/20 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*132*		*14 - 149*	*10/21/20 08:53*	*10/22/20 02:18*	*1*
2-Fluorobiphenyl	*84*		*44 - 129*	*10/21/20 08:53*	*10/22/20 02:18*	*1*
2-Fluorophenol	*50*		*10 - 76*	*10/21/20 08:53*	*10/22/20 02:18*	*1*
Nitrobenzene-d5	*101*		*15 - 314*	*10/21/20 08:53*	*10/22/20 02:18*	*1*
Phenol-d5	*32*		*8 - 424*	*10/21/20 08:53*	*10/22/20 02:18*	*1*
Terphenyl-d14	*100*		*28 - 150*	*10/21/20 08:53*	*10/22/20 02:18*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**580000**		3200	390	ug/L			10/26/20 01:23	10
Sulfate	**110000**		4800	1600	ug/L			10/26/20 01:23	10

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12**	**J**	40	11	ug/L		10/23/20 07:07	10/23/20 23:38	1
Antimony	ND		2.0	0.65	ug/L		10/23/20 07:07	10/23/20 23:38	1
Arsenic	**1.9**	**J**	2.0	0.61	ug/L		10/23/20 07:07	10/26/20 11:37	1
Barium	**220**		4.0	1.0	ug/L		10/23/20 07:07	10/26/20 11:37	1

Client Sample ID: ORS-EFFLUENT
Lab Sample ID: 460-221026-1
Date Collected: 10/20/20 09:50
Matrix: Water
Date Received: 10/20/20 18:00

Method: 200.8 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.80	0.060	ug/L		10/23/20 07:07	10/23/20 23:38	1
Cadmium	ND		2.0	0.43	ug/L		10/23/20 07:07	10/23/20 23:38	1
Calcium	**140000**		200	22	ug/L		10/23/20 07:07	10/23/20 23:38	1
Chromium	ND		4.0	0.45	ug/L		10/23/20 07:07	10/23/20 23:38	1
Cobalt	**1.5**	**J**	4.0	0.19	ug/L		10/23/20 07:07	10/23/20 23:38	1
Copper	ND		4.0	1.1	ug/L		10/23/20 07:07	10/23/20 23:38	1
Iron	**1300**		120	17	ug/L		10/23/20 07:07	10/23/20 23:38	1
Lead	ND		1.2	0.071	ug/L		10/23/20 07:07	10/23/20 23:38	1
Magnesium	**48000**		200	27	ug/L		10/23/20 07:07	10/23/20 23:38	1
Manganese	**2100**		8.0	0.75	ug/L		10/23/20 07:07	10/23/20 23:38	1
Nickel	**3.0**	**J**	4.0	0.84	ug/L		10/23/20 07:07	10/23/20 23:38	1
Potassium	**6700**		200	84	ug/L		10/23/20 07:07	10/23/20 23:38	1
Selenium	**1.5**	**J**	2.5	0.39	ug/L		10/23/20 07:07	10/23/20 23:38	1
Silver	ND		2.0	0.12	ug/L		10/23/20 07:07	10/23/20 23:38	1
Sodium	**340000**		200	20	ug/L		10/23/20 07:07	10/23/20 23:38	1
Thallium	ND		0.80	0.15	ug/L		10/23/20 07:07	10/23/20 23:38	1
Vanadium	ND		4.0	0.24	ug/L		10/23/20 07:07	10/23/20 23:38	1
Zinc	**4.3**	**J**	16	2.6	ug/L		10/23/20 07:07	10/23/20 23:38	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		10/22/20 12:16	10/22/20 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**5.4**	**B**	0.50	0.11	NTU			10/21/20 14:15	1
Phenols, Total	ND		50	41	ug/L		10/26/20 10:34	10/26/20 13:18	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	ND		5.0	5.0	mg/L			10/23/20 15:16	1
SGT-HEM	ND		5.0	5.0	mg/L			10/23/20 15:16	1
Total Dissolved Solids	**1800000**		50000	50000	ug/L			10/23/20 11:39	1
Total Suspended Solids	ND		2500	2500	ug/L			10/23/20 07:10	1
Settleable Solids	ND		0.10	0.10	mL/L			10/21/20 10:00	1
pH	**8.5**	**HF**	0.1	0.1	SU			10/25/20 13:26	1
Temperature	**20.9**	**HF**	0.1	0.1	Degrees C			10/25/20 13:26	1

Client Sample ID: QAQC_TB
Lab Sample ID: 460-221026-2
Date Collected: 10/20/20 09:50
Matrix: Water
Date Received: 10/20/20 18:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/22/20 23:49	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/22/20 23:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/22/20 23:49	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/22/20 23:49	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/22/20 23:49	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/22/20 23:49	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/22/20 23:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/22/20 23:49	1

Client Sample ID: QAQC_TB
Lab Sample ID: 460-221026-2
Date Collected: 10/20/20 09:50
Matrix: Water
Date Received: 10/20/20 18:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/22/20 23:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/22/20 23:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/22/20 23:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/22/20 23:49	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/22/20 23:49	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/22/20 23:49	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/22/20 23:49	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			10/22/20 23:49	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/22/20 23:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/22/20 23:49	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/22/20 23:49	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/20 23:49	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/22/20 23:49	1
1,4-Dioxane	ND		50	28	ug/L			10/22/20 23:49	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/22/20 23:49	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/22/20 23:49	1
2-Hexanone	ND		5.0	2.9	ug/L			10/22/20 23:49	1
2-Propanol	**32**		10	5.9	ug/L			10/22/20 23:49	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/22/20 23:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/22/20 23:49	1
Acetonitrile	ND		10	5.0	ug/L			10/22/20 23:49	1
Benzene	ND		1.0	0.43	ug/L			10/22/20 23:49	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/22/20 23:49	1
Bromobenzene	ND		1.0	0.35	ug/L			10/22/20 23:49	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/22/20 23:49	1
Bromoform	ND		1.0	0.54	ug/L			10/22/20 23:49	1
Bromomethane	ND		1.0	0.45	ug/L			10/22/20 23:49	1
Butyl acetate	ND		2.0	0.33	ug/L			10/22/20 23:49	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/22/20 23:49	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/22/20 23:49	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/22/20 23:49	1
Chloroethane	ND		1.0	0.32	ug/L			10/22/20 23:49	1
Chloroform	ND		1.0	0.33	ug/L			10/22/20 23:49	1
Chloromethane	ND		1.0	0.43	ug/L			10/22/20 23:49	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			10/22/20 23:49	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/22/20 23:49	1
Cyclohexane	ND		1.0	0.32	ug/L			10/22/20 23:49	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/22/20 23:49	1
Dibromomethane	ND		1.0	0.60	ug/L			10/22/20 23:49	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/22/20 23:49	1
Diisopropyl ether	ND		1.0	0.45	ug/L			10/22/20 23:49	1
Ethyl acetate	ND		2.0	0.73	ug/L			10/22/20 23:49	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/22/20 23:49	1
Freon 113	ND		1.0	0.31	ug/L			10/22/20 23:49	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/22/20 23:49	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/22/20 23:49	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/22/20 23:49	1
Methyl iodide	ND	*	1.0	0.48	ug/L			10/22/20 23:49	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/22/20 23:49	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221026-1

Client Sample ID: QAQC_TB

Date Collected: 10/20/20 09:50
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221026-2

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**0.40**	**J**	1.0	0.32	ug/L			10/22/20 23:49	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/22/20 23:49	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/22/20 23:49	1
n-Heptane	ND		5.0	0.47	ug/L			10/22/20 23:49	1
n-Hexane	ND		1.0	0.69	ug/L			10/22/20 23:49	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/22/20 23:49	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/22/20 23:49	1
o-Xylene	ND		1.0	0.36	ug/L			10/22/20 23:49	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/22/20 23:49	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/22/20 23:49	1
Styrene	ND		1.0	0.42	ug/L			10/22/20 23:49	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/22/20 23:49	1
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/22/20 23:49	1
Tetrachloroethene	ND		1.0	0.25	ug/L			10/22/20 23:49	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/22/20 23:49	1
Toluene	ND		1.0	0.38	ug/L			10/22/20 23:49	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/22/20 23:49	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/22/20 23:49	1
Trichloroethene	ND		1.0	0.31	ug/L			10/22/20 23:49	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/22/20 23:49	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/22/20 23:49	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/22/20 23:49	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/22/20 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*		*10/22/20 23:49*	*1*
Bromofluorobenzene	*107*		*60 - 140*		*10/22/20 23:49*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*		*10/22/20 23:49*	*1*
Toluene-d8 (Surr)	*108*		*60 - 140*		*10/22/20 23:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/22/20 11:23	1
Acetone	ND		5.0	4.4	ug/L			10/22/20 11:23	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			10/22/20 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*10/22/20 11:23*	*1*
4-Bromofluorobenzene	*96*		*76 - 120*		*10/22/20 11:23*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 124*		*10/22/20 11:23*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/22/20 11:23*	*1*

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221026-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
460-221026-1	ORS-EFFLUENT	109	108	113	106
460-221026-2	QAQC_TB	104	107	105	108
LCS 460-734016/3	Lab Control Sample	101	93	100	97
LCS 460-734818/5	Lab Control Sample	105	104	108	110
LCSD 460-734016/4	Lab Control Sample Dup	106	106	103	110
LCSD 460-734818/6	Lab Control Sample Dup	112	121	116	109
MB 460-734016/7	Method Blank	104	107	105	108
MB 460-734818/10	Method Blank	100	105	103	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-123)	(76-120)	(77-124)	(80-120)
460-221026-1	ORS-EFFLUENT	97	95	94	95
460-221026-2	QAQC_TB	95	96	94	99
LCS 460-733766/4	Lab Control Sample	93	97	91	98
LCSD 460-733766/5	Lab Control Sample Dup	101	98	95	99
MB 460-733766/8	Method Blank	96	99	94	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(14-149)	(44-129)	(10-76)	(15-314)	(8-424)	(28-150)
460-221026-1	ORS-EFFLUENT	132	84	50	101	32	100
LCS 460-733456/2-A	Lab Control Sample	123	86	50	95	34	85
LCSD 460-733456/3-A	Lab Control Sample Dup	122	74	51	89	33	94
MB 460-733456/1-A	Method Blank	120	86	49	97	33	93

Surrogate Legend

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

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-734016/7
Matrix: Water
Analysis Batch: 734016

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/22/20 23:16	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/22/20 23:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/22/20 23:16	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/22/20 23:16	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/22/20 23:16	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/22/20 23:16	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/22/20 23:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/22/20 23:16	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/22/20 23:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/22/20 23:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/22/20 23:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/22/20 23:16	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/22/20 23:16	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/22/20 23:16	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/22/20 23:16	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			10/22/20 23:16	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/22/20 23:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/22/20 23:16	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/22/20 23:16	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/20 23:16	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/22/20 23:16	1
1,4-Dioxane	ND		50	28	ug/L			10/22/20 23:16	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/22/20 23:16	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/22/20 23:16	1
2-Hexanone	ND		5.0	2.9	ug/L			10/22/20 23:16	1
2-Propanol	ND		10	5.9	ug/L			10/22/20 23:16	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/22/20 23:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/22/20 23:16	1
Acetonitrile	ND		10	5.0	ug/L			10/22/20 23:16	1
Benzene	ND		1.0	0.43	ug/L			10/22/20 23:16	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/22/20 23:16	1
Bromobenzene	ND		1.0	0.35	ug/L			10/22/20 23:16	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/22/20 23:16	1
Bromoform	ND		1.0	0.54	ug/L			10/22/20 23:16	1
Bromomethane	ND		1.0	0.45	ug/L			10/22/20 23:16	1
Butyl acetate	ND		2.0	0.33	ug/L			10/22/20 23:16	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/22/20 23:16	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/22/20 23:16	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/22/20 23:16	1
Chloroethane	ND		1.0	0.32	ug/L			10/22/20 23:16	1
Chloroform	ND		1.0	0.33	ug/L			10/22/20 23:16	1
Chloromethane	ND		1.0	0.43	ug/L			10/22/20 23:16	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			10/22/20 23:16	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/22/20 23:16	1
Cyclohexane	ND		1.0	0.32	ug/L			10/22/20 23:16	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/22/20 23:16	1
Dibromomethane	ND		1.0	0.60	ug/L			10/22/20 23:16	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/22/20 23:16	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-734016/7
Matrix: Water
Analysis Batch: 734016

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.45	ug/L			10/22/20 23:16	1
Ethyl acetate	ND		2.0	0.73	ug/L			10/22/20 23:16	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/22/20 23:16	1
Freon 113	ND		1.0	0.31	ug/L			10/22/20 23:16	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/22/20 23:16	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/22/20 23:16	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/22/20 23:16	1
Methyl iodide	ND		1.0	0.48	ug/L			10/22/20 23:16	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/22/20 23:16	1
Methylene Chloride	ND		1.0	0.32	ug/L			10/22/20 23:16	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/22/20 23:16	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/22/20 23:16	1
n-Heptane	ND		5.0	0.47	ug/L			10/22/20 23:16	1
n-Hexane	ND		1.0	0.69	ug/L			10/22/20 23:16	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/22/20 23:16	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/22/20 23:16	1
o-Xylene	ND		1.0	0.36	ug/L			10/22/20 23:16	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/22/20 23:16	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/22/20 23:16	1
Styrene	ND		1.0	0.42	ug/L			10/22/20 23:16	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/22/20 23:16	1
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/22/20 23:16	1
Tetrachloroethene	ND		1.0	0.25	ug/L			10/22/20 23:16	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/22/20 23:16	1
Toluene	ND		1.0	0.38	ug/L			10/22/20 23:16	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/22/20 23:16	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/22/20 23:16	1
Trichloroethene	ND		1.0	0.31	ug/L			10/22/20 23:16	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/22/20 23:16	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/22/20 23:16	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/22/20 23:16	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/22/20 23:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*		*10/22/20 23:16*	*1*
Bromofluorobenzene	*107*		*60 - 140*		*10/22/20 23:16*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*		*10/22/20 23:16*	*1*
Toluene-d8 (Surr)	*108*		*60 - 140*		*10/22/20 23:16*	*1*

Lab Sample ID: LCS 460-734016/3
Matrix: Water
Analysis Batch: 734016

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	17.5		ug/L		88	60 - 140
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	60 - 140
1,1,2-Trichloroethane	20.0	20.5		ug/L		102	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-734016/3
Matrix: Water
Analysis Batch: 734016

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	18.4		ug/L		92	70 - 130
1,1-Dichloroethene	20.0	19.9		ug/L		100	50 - 150
1,1-Dichloropropene	20.0	18.7		ug/L		93	60 - 140
1,2,3-Trichlorobenzene	20.0	25.6		ug/L		128	60 - 140
1,2,3-Trichloropropane	20.0	20.6		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	20.0	24.7		ug/L		123	60 - 140
1,2,4-Trimethylbenzene	20.0	19.1		ug/L		95	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	18.2		ug/L		91	60 - 140
1,2-Dibromoethane	20.0	19.1		ug/L		96	60 - 140
1,2-Dichlorobenzene	20.0	19.7		ug/L		98	65 - 135
1,2-Dichloroethane	20.0	18.7		ug/L		94	70 - 130
1,2-Dichloropropane	20.0	19.1		ug/L		95	35 - 165
1,3,5-Trimethylbenzene	20.0	19.3		ug/L		96	60 - 140
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130
1,3-Dichloropropane	20.0	19.0		ug/L		95	60 - 140
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	65 - 135
1,4-Dioxane	400	386		ug/L		97	60 - 140
2,2-Dichloropropane	20.0	18.1		ug/L		90	60 - 140
2-Chlorotoluene	20.0	19.7		ug/L		99	60 - 140
2-Hexanone	100	118		ug/L		118	60 - 140
4-Chlorotoluene	20.0	19.9		ug/L		99	60 - 140
4-Methyl-2-pentanone (MIBK)	100	105		ug/L		105	60 - 140
Acetonitrile	200	222		ug/L		111	60 - 140
Benzene	20.0	17.7		ug/L		89	65 - 135
Benzyl chloride	20.0	13.1		ug/L		66	60 - 140
Bromobenzene	20.0	19.8		ug/L		99	60 - 140
Bromodichloromethane	20.0	18.2		ug/L		91	65 - 135
Bromoform	20.0	15.0		ug/L		75	70 - 130
Bromomethane	20.0	19.1		ug/L		96	15 - 185
Butyl acetate	20.0	19.7		ug/L		98	60 - 140
Carbon disulfide	20.0	19.3		ug/L		96	60 - 140
Carbon tetrachloride	20.0	17.9		ug/L		90	70 - 130
Chlorobenzene	20.0	18.5		ug/L		92	65 - 135
Chloroethane	20.0	25.8		ug/L		129	40 - 160
Chloroform	20.0	18.8		ug/L		94	70 - 135
Chloromethane	20.0	22.8		ug/L		114	0.1 - 205
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	60 - 140
cis-1,3-Dichloropropene	20.0	16.2		ug/L		81	25 - 175
Cyclohexane	20.0	18.4		ug/L		92	60 - 140
Dibromochloromethane	20.0	18.0		ug/L		90	70 - 135
Dibromomethane	20.0	18.7		ug/L		93	60 - 140
Dichlorodifluoromethane	20.0	17.3		ug/L		86	60 - 140
Diisopropyl ether	20.0	19.5		ug/L		98	60 - 140
Ethyl acetate	40.0	37.8		ug/L		94	60 - 140
Ethylbenzene	20.0	18.8		ug/L		94	60 - 140
Freon 113	20.0	19.1		ug/L		95	60 - 140
Hexachlorobutadiene	20.0	16.9		ug/L		85	60 - 140
Isopropyl acetate	20.0	18.2		ug/L		91	60 - 140
Isopropylbenzene	20.0	17.4		ug/L		87	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-734016/3
Matrix: Water
Analysis Batch: 734016

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl iodide	20.0	11.1	*	ug/L		55	60 - 140
Methyl methacrylate	40.0	37.4		ug/L		94	60 - 140
Methylene Chloride	20.0	18.7		ug/L		93	60 - 140
m-Xylene & p-Xylene	20.0	17.3		ug/L		87	60 - 140
n-Butylbenzene	20.0	17.2		ug/L		86	60 - 140
n-Heptane	20.0	16.8		ug/L		84	60 - 140
n-Hexane	20.0	18.3		ug/L		91	60 - 140
n-Propyl acetate	20.0	18.0		ug/L		90	60 - 140
N-Propylbenzene	20.0	18.9		ug/L		94	60 - 140
o-Xylene	20.0	17.1		ug/L		86	60 - 140
p-Isopropyltoluene	20.0	17.5		ug/L		88	60 - 140
sec-Butylbenzene	20.0	18.0		ug/L		90	60 - 140
Styrene	20.0	18.1		ug/L		91	60 - 140
t-Butyl alcohol	200	188		ug/L		94	60 - 140
tert-Butylbenzene	20.0	18.0		ug/L		90	60 - 140
Tetrachloroethene	20.0	19.2		ug/L		96	70 - 130
Tetrahydrofuran	40.0	36.1		ug/L		90	60 - 140
Toluene	20.0	18.3		ug/L		91	70 - 130
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	70 - 130
trans-1,3-Dichloropropene	20.0	17.6		ug/L		88	50 - 150
Trichloroethene	20.0	19.5		ug/L		97	65 - 135
Trichlorofluoromethane	20.0	25.7		ug/L		129	50 - 150
Vinyl acetate	40.0	36.8		ug/L		92	60 - 140
Vinyl chloride	20.0	23.8		ug/L		119	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Bromofluorobenzene	*93*		*60 - 140*
Dibromofluoromethane (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*97*		*60 - 140*

Lab Sample ID: LCSD 460-734016/4
Matrix: Water
Analysis Batch: 734016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.2		ug/L		96	60 - 140	9	50
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	70 - 130	9	36
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L		94	60 - 140	6	61
1,1,2-Trichloroethane	20.0	22.8		ug/L		114	70 - 130	11	45
1,1-Dichloroethane	20.0	18.0		ug/L		90	70 - 130	2	40
1,1-Dichloroethene	20.0	22.1		ug/L		111	50 - 150	11	32
1,1-Dichloropropene	20.0	21.4		ug/L		107	60 - 140	14	50
1,2,3-Trichlorobenzene	20.0	23.1		ug/L		116	60 - 140	10	50
1,2,3-Trichloropropane	20.0	19.2		ug/L		96	60 - 140	7	50
1,2,4-Trichlorobenzene	20.0	21.6		ug/L		108	60 - 140	13	50
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		97	60 - 140	1	50
1,2-Dibromo-3-Chloropropane	20.0	17.2		ug/L		86	60 - 140	6	50

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-734016/4
Matrix: Water
Analysis Batch: 734016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	20.0	21.5		ug/L		107	60 - 140	12	50
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	65 - 135	2	57
1,2-Dichloroethane	20.0	19.8		ug/L		99	70 - 130	6	49
1,2-Dichloropropane	20.0	18.6		ug/L		93	35 - 165	2	55
1,3,5-Trimethylbenzene	20.0	18.6		ug/L		93	60 - 140	4	50
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	70 - 130	4	43
1,3-Dichloropropane	20.0	21.1		ug/L		105	60 - 140	11	50
1,4-Dichlorobenzene	20.0	19.7		ug/L		99	65 - 135	1	57
1,4-Dioxane	400	393		ug/L		98	60 - 140	2	50
2,2-Dichloropropane	20.0	18.6		ug/L		93	60 - 140	3	50
2-Chlorotoluene	20.0	19.0		ug/L		95	60 - 140	4	50
2-Hexanone	100	103		ug/L		103	60 - 140	13	50
4-Chlorotoluene	20.0	19.2		ug/L		96	60 - 140	3	50
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	60 - 140	4	50
Acetonitrile	200	221		ug/L		111	60 - 140	0	50
Benzene	20.0	22.1		ug/L		110	65 - 135	22	61
Benzyl chloride	20.0	13.6		ug/L		68	60 - 140	4	50
Bromobenzene	20.0	19.5		ug/L		97	60 - 140	2	50
Bromodichloromethane	20.0	17.6		ug/L		88	65 - 135	4	56
Bromoform	20.0	17.8		ug/L		89	70 - 130	17	42
Bromomethane	20.0	17.6		ug/L		88	15 - 185	8	61
Butyl acetate	20.0	21.7		ug/L		108	60 - 140	10	50
Carbon disulfide	20.0	21.4		ug/L		107	60 - 140	10	50
Carbon tetrachloride	20.0	21.0		ug/L		105	70 - 130	16	41
Chlorobenzene	20.0	19.8		ug/L		99	65 - 135	7	53
Chloroethane	20.0	26.7		ug/L		133	40 - 160	3	78
Chloroform	20.0	20.6		ug/L		103	70 - 135	9	54
Chloromethane	20.0	25.0		ug/L		125	0.1 - 205	9	60
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	60 - 140	5	50
cis-1,3-Dichloropropene	20.0	18.9		ug/L		95	25 - 175	15	58
Cyclohexane	20.0	19.6		ug/L		98	60 - 140	6	50
Dibromochloromethane	20.0	20.4		ug/L		102	70 - 135	12	50
Dibromomethane	20.0	17.6		ug/L		88	60 - 140	6	50
Dichlorodifluoromethane	20.0	20.6		ug/L		103	60 - 140	18	50
Diisopropyl ether	20.0	19.4		ug/L		97	60 - 140	1	50
Ethyl acetate	40.0	37.5		ug/L		94	60 - 140	1	50
Ethylbenzene	20.0	20.7		ug/L		104	60 - 140	10	63
Freon 113	20.0	21.2		ug/L		106	60 - 140	11	50
Hexachlorobutadiene	20.0	15.9		ug/L		79	60 - 140	6	50
Isopropyl acetate	20.0	19.6		ug/L		98	60 - 140	7	50
Isopropylbenzene	20.0	20.4		ug/L		102	60 - 140	16	50
Methyl iodide	20.0	13.6		ug/L		68	60 - 140	20	50
Methyl methacrylate	40.0	35.2		ug/L		88	60 - 140	6	50
Methylene Chloride	20.0	19.7		ug/L		99	60 - 140	5	28
m-Xylene & p-Xylene	20.0	20.0		ug/L		100	60 - 140	15	50
n-Butylbenzene	20.0	17.9		ug/L		89	60 - 140	4	50
n-Heptane	20.0	18.0		ug/L		90	60 - 140	7	50
n-Hexane	20.0	17.9		ug/L		90	60 - 140	2	50
n-Propyl acetate	20.0	17.2		ug/L		86	60 - 140	5	50

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-734016/4
Matrix: Water
Analysis Batch: 734016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene			20.0	18.3		ug/L		91	60 - 140	3	50
o-Xylene			20.0	19.9		ug/L		100	60 - 140	15	50
p-Isopropyltoluene			20.0	17.9		ug/L		89	60 - 140	2	50
sec-Butylbenzene			20.0	20.4		ug/L		102	60 - 140	13	50
Styrene			20.0	21.1		ug/L		105	60 - 140	15	50
t-Butyl alcohol			200	190		ug/L		95	60 - 140	1	50
tert-Butylbenzene			20.0	17.4		ug/L		87	60 - 140	3	50
Tetrachloroethene			20.0	22.1		ug/L		110	70 - 130	14	39
Tetrahydrofuran			40.0	38.3		ug/L		96	60 - 140	6	50
Toluene			20.0	23.5		ug/L		118	70 - 130	25	41
trans-1,2-Dichloroethene			20.0	19.4		ug/L		97	70 - 130	1	45
trans-1,3-Dichloropropene			20.0	19.8		ug/L		99	50 - 150	12	86
Trichloroethene			20.0	19.0		ug/L		95	65 - 135	3	48
Trichlorofluoromethane			20.0	25.5		ug/L		127	50 - 150	1	84
Vinyl acetate			40.0	34.6		ug/L		87	60 - 140	6	50
Vinyl chloride			20.0	24.9		ug/L		125	5 - 195	4	66

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*
Bromofluorobenzene	*106*		*60 - 140*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*110*		*60 - 140*

Lab Sample ID: MB 460-734818/10
Matrix: Water
Analysis Batch: 734818

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/26/20 12:02	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/26/20 12:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/26/20 12:02	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/26/20 12:02	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/26/20 12:02	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/26/20 12:02	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/26/20 12:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/26/20 12:02	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/26/20 12:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/26/20 12:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/26/20 12:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/26/20 12:02	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/26/20 12:02	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/26/20 12:02	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/26/20 12:02	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			10/26/20 12:02	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/26/20 12:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/26/20 12:02	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/26/20 12:02	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/26/20 12:02	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-734818/10
Matrix: Water
Analysis Batch: 734818

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/26/20 12:02	1
1,4-Dioxane	ND		50	28	ug/L			10/26/20 12:02	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/26/20 12:02	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/26/20 12:02	1
2-Hexanone	ND		5.0	2.9	ug/L			10/26/20 12:02	1
2-Propanol	ND		10	5.9	ug/L			10/26/20 12:02	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/26/20 12:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/26/20 12:02	1
Acetonitrile	ND		10	5.0	ug/L			10/26/20 12:02	1
Benzene	ND		1.0	0.43	ug/L			10/26/20 12:02	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/26/20 12:02	1
Bromobenzene	ND		1.0	0.35	ug/L			10/26/20 12:02	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/26/20 12:02	1
Bromoform	ND		1.0	0.54	ug/L			10/26/20 12:02	1
Bromomethane	ND		1.0	0.45	ug/L			10/26/20 12:02	1
Butyl acetate	ND		2.0	0.33	ug/L			10/26/20 12:02	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/26/20 12:02	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/26/20 12:02	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/26/20 12:02	1
Chloroethane	ND		1.0	0.32	ug/L			10/26/20 12:02	1
Chloroform	ND		1.0	0.33	ug/L			10/26/20 12:02	1
Chloromethane	ND		1.0	0.43	ug/L			10/26/20 12:02	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			10/26/20 12:02	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/26/20 12:02	1
Cyclohexane	ND		1.0	0.32	ug/L			10/26/20 12:02	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/26/20 12:02	1
Dibromomethane	ND		1.0	0.60	ug/L			10/26/20 12:02	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/26/20 12:02	1
Diisopropyl ether	ND		1.0	0.45	ug/L			10/26/20 12:02	1
Ethyl acetate	ND		2.0	0.73	ug/L			10/26/20 12:02	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/26/20 12:02	1
Freon 113	ND		1.0	0.31	ug/L			10/26/20 12:02	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/26/20 12:02	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/26/20 12:02	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/26/20 12:02	1
Methyl iodide	ND		1.0	0.48	ug/L			10/26/20 12:02	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/26/20 12:02	1
Methylene Chloride	ND		1.0	0.32	ug/L			10/26/20 12:02	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/26/20 12:02	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/26/20 12:02	1
n-Heptane	ND		5.0	0.47	ug/L			10/26/20 12:02	1
n-Hexane	ND		1.0	0.69	ug/L			10/26/20 12:02	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/26/20 12:02	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/26/20 12:02	1
o-Xylene	ND		1.0	0.36	ug/L			10/26/20 12:02	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/26/20 12:02	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/26/20 12:02	1
Styrene	ND		1.0	0.42	ug/L			10/26/20 12:02	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/26/20 12:02	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-734818/10
Matrix: Water
Analysis Batch: 734818

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/26/20 12:02	1
Tetrachloroethene	ND		1.0	0.25	ug/L			10/26/20 12:02	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/26/20 12:02	1
Toluene	ND		1.0	0.38	ug/L			10/26/20 12:02	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/26/20 12:02	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/26/20 12:02	1
Trichloroethene	ND		1.0	0.31	ug/L			10/26/20 12:02	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/26/20 12:02	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/26/20 12:02	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/26/20 12:02	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/26/20 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*10/26/20 12:02*	*1*
Bromofluorobenzene	*105*		*60 - 140*		*10/26/20 12:02*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*10/26/20 12:02*	*1*
Toluene-d8 (Surr)	*108*		*60 - 140*		*10/26/20 12:02*	*1*

Lab Sample ID: LCS 460-734818/5
Matrix: Water
Analysis Batch: 734818

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.0		ug/L		100	60 - 140
1,1,1-Trichloroethane	20.0	20.5		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	60 - 140
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	70 - 130
1,1-Dichloroethane	20.0	20.3		ug/L		102	70 - 130
1,1-Dichloroethene	20.0	21.8		ug/L		109	50 - 150
1,1-Dichloropropene	20.0	20.7		ug/L		104	60 - 140
1,2,3-Trichlorobenzene	20.0	26.1		ug/L		131	60 - 140
1,2,3-Trichloropropane	20.0	21.0		ug/L		105	60 - 140
1,2,4-Trichlorobenzene	20.0	24.3		ug/L		121	60 - 140
1,2,4-Trimethylbenzene	20.0	19.6		ug/L		98	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	19.7		ug/L		98	60 - 140
1,2-Dibromoethane	20.0	20.5		ug/L		103	60 - 140
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	65 - 135
1,2-Dichloroethane	20.0	20.0		ug/L		100	70 - 130
1,2-Dichloropropane	20.0	22.5		ug/L		112	35 - 165
1,3,5-Trimethylbenzene	20.0	20.0		ug/L		100	60 - 140
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	70 - 130
1,3-Dichloropropane	20.0	20.5		ug/L		103	60 - 140
1,4-Dichlorobenzene	20.0	20.1		ug/L		100	65 - 135
1,4-Dioxane	400	400		ug/L		100	60 - 140
2,2-Dichloropropane	20.0	21.1		ug/L		106	60 - 140
2-Chlorotoluene	20.0	20.0		ug/L		100	60 - 140
2-Hexanone	100	104		ug/L		104	60 - 140
4-Chlorotoluene	20.0	20.5		ug/L		102	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-734818/5
Matrix: Water
Analysis Batch: 734818

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	100	112		ug/L		112	60 - 140
Acetonitrile	200	222		ug/L		111	60 - 140
Benzene	20.0	20.7		ug/L		104	65 - 135
Benzyl chloride	20.0	15.1		ug/L		75	60 - 140
Bromobenzene	20.0	21.1		ug/L		106	60 - 140
Bromodichloromethane	20.0	22.2		ug/L		111	65 - 135
Bromoform	20.0	19.7		ug/L		98	70 - 130
Bromomethane	20.0	17.1		ug/L		86	15 - 185
Butyl acetate	20.0	18.8		ug/L		94	60 - 140
Carbon disulfide	20.0	22.1		ug/L		110	60 - 140
Carbon tetrachloride	20.0	20.8		ug/L		104	70 - 130
Chlorobenzene	20.0	20.1		ug/L		100	65 - 135
Chloroethane	20.0	25.1		ug/L		126	40 - 160
Chloroform	20.0	20.7		ug/L		104	70 - 135
Chloromethane	20.0	23.4		ug/L		117	0.1 - 205
cis-1,2-Dichloroethene	20.0	21.0		ug/L		105	60 - 140
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	25 - 175
Cyclohexane	20.0	20.5		ug/L		103	60 - 140
Dibromochloromethane	20.0	20.0		ug/L		100	70 - 135
Dibromomethane	20.0	21.4		ug/L		107	60 - 140
Dichlorodifluoromethane	20.0	22.4		ug/L		112	60 - 140
Diisopropyl ether	20.0	20.4		ug/L		102	60 - 140
Ethyl acetate	40.0	40.1		ug/L		100	60 - 140
Ethylbenzene	20.0	20.8		ug/L		104	60 - 140
Freon 113	20.0	21.0		ug/L		105	60 - 140
Hexachlorobutadiene	20.0	17.7		ug/L		89	60 - 140
Isopropyl acetate	20.0	19.2		ug/L		96	60 - 140
Isopropylbenzene	20.0	20.1		ug/L		100	60 - 140
Methyl iodide	20.0	13.5		ug/L		67	60 - 140
Methyl methacrylate	40.0	42.5		ug/L		106	60 - 140
Methylene Chloride	20.0	20.5		ug/L		103	60 - 140
m-Xylene & p-Xylene	20.0	19.9		ug/L		99	60 - 140
n-Butylbenzene	20.0	17.3		ug/L		86	60 - 140
n-Heptane	20.0	18.5		ug/L		92	60 - 140
n-Hexane	20.0	20.0		ug/L		100	60 - 140
n-Propyl acetate	20.0	20.0		ug/L		100	60 - 140
N-Propylbenzene	20.0	19.2		ug/L		96	60 - 140
o-Xylene	20.0	20.1		ug/L		101	60 - 140
p-Isopropyltoluene	20.0	17.7		ug/L		88	60 - 140
sec-Butylbenzene	20.0	18.0		ug/L		90	60 - 140
Styrene	20.0	21.2		ug/L		106	60 - 140
t-Butyl alcohol	200	188		ug/L		94	60 - 140
tert-Butylbenzene	20.0	18.4		ug/L		92	60 - 140
Tetrachloroethene	20.0	21.7		ug/L		108	70 - 130
Tetrahydrofuran	40.0	38.4		ug/L		96	60 - 140
Toluene	20.0	22.0		ug/L		110	70 - 130
trans-1,2-Dichloroethene	20.0	21.3		ug/L		107	70 - 130
trans-1,3-Dichloropropene	20.0	20.0		ug/L		100	50 - 150
Trichloroethene	20.0	22.5		ug/L		112	65 - 135

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-734818/5
Matrix: Water
Analysis Batch: 734818

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	24.0		ug/L		120	50 - 150
Vinyl acetate	40.0	41.1		ug/L		103	60 - 140
Vinyl chloride	20.0	24.5		ug/L		122	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*
Bromofluorobenzene	*104*		*60 - 140*
Dibromofluoromethane (Surr)	*108*		*60 - 140*
Toluene-d8 (Surr)	*110*		*60 - 140*

Lab Sample ID: LCSD 460-734818/6
Matrix: Water
Analysis Batch: 734818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/L		104	60 - 140	4	50
1,1,1-Trichloroethane	20.0	21.7		ug/L		108	70 - 130	5	36
1,1,2,2-Tetrachloroethane	20.0	21.9		ug/L		110	60 - 140	7	61
1,1,2-Trichloroethane	20.0	20.8		ug/L		104	70 - 130	3	45
1,1-Dichloroethane	20.0	20.7		ug/L		103	70 - 130	2	40
1,1-Dichloroethene	20.0	22.8		ug/L		114	50 - 150	4	32
1,1-Dichloropropene	20.0	21.3		ug/L		107	60 - 140	3	50
1,2,3-Trichlorobenzene	20.0	26.1		ug/L		131	60 - 140	0	50
1,2,3-Trichloropropane	20.0	22.1		ug/L		111	60 - 140	5	50
1,2,4-Trichlorobenzene	20.0	24.8		ug/L		124	60 - 140	2	50
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		96	60 - 140	2	50
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/L		101	60 - 140	3	50
1,2-Dibromoethane	20.0	20.9		ug/L		105	60 - 140	2	50
1,2-Dichlorobenzene	20.0	20.7		ug/L		104	65 - 135	3	57
1,2-Dichloroethane	20.0	20.7		ug/L		103	70 - 130	3	49
1,2-Dichloropropane	20.0	21.8		ug/L		109	35 - 165	3	55
1,3,5-Trimethylbenzene	20.0	19.6		ug/L		98	60 - 140	2	50
1,3-Dichlorobenzene	20.0	21.2		ug/L		106	70 - 130	3	43
1,3-Dichloropropane	20.0	20.3		ug/L		102	60 - 140	1	50
1,4-Dichlorobenzene	20.0	20.5		ug/L		102	65 - 135	2	57
1,4-Dioxane	400	412		ug/L		103	60 - 140	3	50
2,2-Dichloropropane	20.0	21.5		ug/L		107	60 - 140	2	50
2-Chlorotoluene	20.0	21.0		ug/L		105	60 - 140	5	50
2-Hexanone	100	111		ug/L		111	60 - 140	6	50
4-Chlorotoluene	20.0	21.3		ug/L		107	60 - 140	4	50
4-Methyl-2-pentanone (MIBK)	100	112		ug/L		112	60 - 140	1	50
Acetonitrile	200	221		ug/L		110	60 - 140	0	50
Benzene	20.0	20.3		ug/L		101	65 - 135	2	61
Benzyl chloride	20.0	15.6		ug/L		78	60 - 140	3	50
Bromobenzene	20.0	21.6		ug/L		108	60 - 140	2	50
Bromodichloromethane	20.0	21.7		ug/L		109	65 - 135	2	56
Bromoform	20.0	21.9		ug/L		110	70 - 130	11	42
Bromomethane	20.0	18.1		ug/L		91	15 - 185	6	61

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-734818/6
Matrix: Water
Analysis Batch: 734818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Butyl acetate	20.0	19.4		ug/L		97	60 - 140	3	50
Carbon disulfide	20.0	23.4		ug/L		117	60 - 140	6	50
Carbon tetrachloride	20.0	21.4		ug/L		107	70 - 130	3	41
Chlorobenzene	20.0	20.7		ug/L		104	65 - 135	3	53
Chloroethane	20.0	26.5		ug/L		132	40 - 160	5	78
Chloroform	20.0	21.6		ug/L		108	70 - 135	4	54
Chloromethane	20.0	26.0		ug/L		130	0.1 - 205	10	60
cis-1,2-Dichloroethene	20.0	22.2		ug/L		111	60 - 140	5	50
cis-1,3-Dichloropropene	20.0	19.5		ug/L		98	25 - 175	7	58
Cyclohexane	20.0	21.2		ug/L		106	60 - 140	3	50
Dibromochloromethane	20.0	20.5		ug/L		102	70 - 135	2	50
Dibromomethane	20.0	21.5		ug/L		108	60 - 140	1	50
Dichlorodifluoromethane	20.0	24.1		ug/L		121	60 - 140	8	50
Diisopropyl ether	20.0	21.7		ug/L		108	60 - 140	6	50
Ethyl acetate	40.0	42.8		ug/L		107	60 - 140	7	50
Ethylbenzene	20.0	21.4		ug/L		107	60 - 140	3	63
Freon 113	20.0	22.9		ug/L		114	60 - 140	9	50
Hexachlorobutadiene	20.0	18.6		ug/L		93	60 - 140	5	50
Isopropyl acetate	20.0	20.0		ug/L		100	60 - 140	4	50
Isopropylbenzene	20.0	23.5		ug/L		117	60 - 140	16	50
Methyl iodide	20.0	13.9		ug/L		69	60 - 140	3	50
Methyl methacrylate	40.0	43.3		ug/L		108	60 - 140	2	50
Methylene Chloride	20.0	21.3		ug/L		107	60 - 140	4	28
m-Xylene & p-Xylene	20.0	20.9		ug/L		104	60 - 140	5	50
n-Butylbenzene	20.0	17.6		ug/L		88	60 - 140	2	50
n-Heptane	20.0	19.4		ug/L		97	60 - 140	5	50
n-Hexane	20.0	21.6		ug/L		108	60 - 140	7	50
n-Propyl acetate	20.0	19.9		ug/L		99	60 - 140	1	50
N-Propylbenzene	20.0	20.0		ug/L		100	60 - 140	4	50
o-Xylene	20.0	21.5		ug/L		108	60 - 140	7	50
p-Isopropyltoluene	20.0	17.8		ug/L		89	60 - 140	0	50
sec-Butylbenzene	20.0	18.7		ug/L		94	60 - 140	4	50
Styrene	20.0	22.4		ug/L		112	60 - 140	6	50
t-Butyl alcohol	200	199		ug/L		100	60 - 140	6	50
tert-Butylbenzene	20.0	18.9		ug/L		95	60 - 140	3	50
Tetrachloroethene	20.0	21.1		ug/L		106	70 - 130	3	39
Tetrahydrofuran	40.0	38.5		ug/L		96	60 - 140	0	50
Toluene	20.0	20.7		ug/L		103	70 - 130	6	41
trans-1,2-Dichloroethene	20.0	22.5		ug/L		112	70 - 130	5	45
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	50 - 150	5	86
Trichloroethene	20.0	22.5		ug/L		112	65 - 135	0	48
Trichlorofluoromethane	20.0	26.6		ug/L		133	50 - 150	10	84
Vinyl acetate	40.0	44.7		ug/L		112	60 - 140	8	50
Vinyl chloride	20.0	26.2		ug/L		131	5 - 195	7	66

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 140*
Bromofluorobenzene	*121*		*60 - 140*

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-734818/6
Matrix: Water
Analysis Batch: 734818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*116*		*60 - 140*
Toluene-d8 (Surr)	*109*		*60 - 140*

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

Lab Sample ID: MB 460-733766/8
Matrix: Water
Analysis Batch: 733766

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/22/20 10:36	1
Acetone	ND		5.0	4.4	ug/L			10/22/20 10:36	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			10/22/20 10:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*10/22/20 10:36*	*1*
4-Bromofluorobenzene	*99*		*76 - 120*		*10/22/20 10:36*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 124*		*10/22/20 10:36*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/22/20 10:36*	*1*

Lab Sample ID: LCS 460-733766/4
Matrix: Water
Analysis Batch: 733766

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Butanone (MEK)			100	89.7		ug/L		90	69 - 128		
Acetone			100	84.6		ug/L		85	61 - 134		
Methyl tert-butyl ether			20.0	18.1		ug/L		91	65 - 131		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*
4-Bromofluorobenzene	*97*		*76 - 120*
Dibromofluoromethane (Surr)	*91*		*77 - 124*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 460-733766/5
Matrix: Water
Analysis Batch: 733766

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			100	95.1		ug/L		95	69 - 128	6	30
Acetone			100	89.1		ug/L		89	61 - 134	5	30
Methyl tert-butyl ether			20.0	21.1		ug/L		105	65 - 131	15	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*
4-Bromofluorobenzene	*98*		*76 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 124*

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

Lab Sample ID: LCSD 460-733766/5
Matrix: Water
Analysis Batch: 733766

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-733456/1-A
Matrix: Water
Analysis Batch: 733647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10	1.2	ug/L		10/21/20 08:53	10/21/20 21:14	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.2	ug/L		10/21/20 08:53	10/21/20 21:14	1
1,2,4-Trichlorobenzene	ND		2.0	1.3	ug/L		10/21/20 08:53	10/21/20 21:14	1
1,2-Dichlorobenzene	ND		10	0.60	ug/L		10/21/20 08:53	10/21/20 21:14	1
1,2-Diphenylhydrazine	ND		10	0.37	ug/L		10/21/20 08:53	10/21/20 21:14	1
1,3-Dichlorobenzene	ND		10	2.0	ug/L		10/21/20 08:53	10/21/20 21:14	1
1,4-Dichlorobenzene	ND		10	0.52	ug/L		10/21/20 08:53	10/21/20 21:14	1
1,4-Dioxane	ND		10	1.6	ug/L		10/21/20 08:53	10/21/20 21:14	1
1-Methylnaphthalene	ND		4.0	1.1	ug/L		10/21/20 08:53	10/21/20 21:14	1
2,2'-oxybis[1-chloropropane]	ND		10	0.63	ug/L		10/21/20 08:53	10/21/20 21:14	1
2,3,4,6-Tetrachlorophenol	ND		10	0.75	ug/L		10/21/20 08:53	10/21/20 21:14	1
2,4,5-Trichlorophenol	ND		10	0.85	ug/L		10/21/20 08:53	10/21/20 21:14	1
2,4,6-Trichlorophenol	ND		10	0.70	ug/L		10/21/20 08:53	10/21/20 21:14	1
2,4-Dichlorophenol	ND		10	1.2	ug/L		10/21/20 08:53	10/21/20 21:14	1
2,4-Dimethylphenol	ND		10	0.66	ug/L		10/21/20 08:53	10/21/20 21:14	1
2,4-Dinitrophenol	ND		20	2.0	ug/L		10/21/20 08:53	10/21/20 21:14	1
2,4-Dinitrotoluene	ND		2.0	1.0	ug/L		10/21/20 08:53	10/21/20 21:14	1
2,6-Dinitrotoluene	ND		2.0	1.4	ug/L		10/21/20 08:53	10/21/20 21:14	1
2-Chloronaphthalene	ND		10	1.2	ug/L		10/21/20 08:53	10/21/20 21:14	1
2-Chlorophenol	ND		10	0.38	ug/L		10/21/20 08:53	10/21/20 21:14	1
2-Methylnaphthalene	ND		10	1.1	ug/L		10/21/20 08:53	10/21/20 21:14	1
2-Methylphenol	ND		10	0.67	ug/L		10/21/20 08:53	10/21/20 21:14	1
2-Nitroaniline	ND		10	0.47	ug/L		10/21/20 08:53	10/21/20 21:14	1
2-Nitrophenol	ND		10	1.9	ug/L		10/21/20 08:53	10/21/20 21:14	1
3,3'-Dichlorobenzidine	ND		10	3.3	ug/L		10/21/20 08:53	10/21/20 21:14	1
3-Nitroaniline	ND		10	2.5	ug/L		10/21/20 08:53	10/21/20 21:14	1
4,6-Dinitro-2-methylphenol	ND		20	3.4	ug/L		10/21/20 08:53	10/21/20 21:14	1
4-Bromophenyl phenyl ether	ND		10	0.75	ug/L		10/21/20 08:53	10/21/20 21:14	1
4-Chloro-3-methylphenol	ND		10	1.2	ug/L		10/21/20 08:53	10/21/20 21:14	1
4-Chloroaniline	ND		10	1.9	ug/L		10/21/20 08:53	10/21/20 21:14	1
4-Chlorophenyl phenyl ether	ND		10	1.3	ug/L		10/21/20 08:53	10/21/20 21:14	1
4-Methylphenol	ND		10	0.76	ug/L		10/21/20 08:53	10/21/20 21:14	1
4-Nitroaniline	ND		10	1.3	ug/L		10/21/20 08:53	10/21/20 21:14	1
4-Nitrophenol	ND		20	1.7	ug/L		10/21/20 08:53	10/21/20 21:14	1
Acenaphthene	ND		10	1.1	ug/L		10/21/20 08:53	10/21/20 21:14	1
Acenaphthylene	ND		10	0.82	ug/L		10/21/20 08:53	10/21/20 21:14	1
Acetophenone	ND		10	2.5	ug/L		10/21/20 08:53	10/21/20 21:14	1
Aniline	ND		10	1.1	ug/L		10/21/20 08:53	10/21/20 21:14	1
Anthracene	ND		10	1.3	ug/L		10/21/20 08:53	10/21/20 21:14	1
Benzidine	ND		10	0.70	ug/L		10/21/20 08:53	10/21/20 21:14	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-733456/1-A
Matrix: Water
Analysis Batch: 733647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		1.0	0.59	ug/L		10/21/20 08:53	10/21/20 21:14	1
Benzo[a]pyrene	ND		1.0	0.68	ug/L		10/21/20 08:53	10/21/20 21:14	1
Benzo[b]fluoranthene	ND		2.0	1.4	ug/L		10/21/20 08:53	10/21/20 21:14	1
Benzo[g,h,i]perylene	ND		10	1.3	ug/L		10/21/20 08:53	10/21/20 21:14	1
Benzo[k]fluoranthene	ND		1.0	0.67	ug/L		10/21/20 08:53	10/21/20 21:14	1
Benzoic acid	ND		50	9.3	ug/L		10/21/20 08:53	10/21/20 21:14	1
Benzyl alcohol	ND		10	0.94	ug/L		10/21/20 08:53	10/21/20 21:14	1
Bis(2-chloroethoxy)methane	ND		10	0.64	ug/L		10/21/20 08:53	10/21/20 21:14	1
Bis(2-chloroethyl)ether	ND		1.0	0.69	ug/L		10/21/20 08:53	10/21/20 21:14	1
Bis(2-ethylhexyl) phthalate	ND		2.0	1.0	ug/L		10/21/20 08:53	10/21/20 21:14	1
Butyl benzyl phthalate	ND		10	0.85	ug/L		10/21/20 08:53	10/21/20 21:14	1
Carbazole	ND		10	0.68	ug/L		10/21/20 08:53	10/21/20 21:14	1
Chrysene	ND		2.0	0.91	ug/L		10/21/20 08:53	10/21/20 21:14	1
Dibenz(a,h)anthracene	ND		1.0	0.74	ug/L		10/21/20 08:53	10/21/20 21:14	1
Dibenzofuran	ND		10	1.1	ug/L		10/21/20 08:53	10/21/20 21:14	1
Diethyl phthalate	ND		10	0.98	ug/L		10/21/20 08:53	10/21/20 21:14	1
Dimethyl phthalate	ND		10	1.6	ug/L		10/21/20 08:53	10/21/20 21:14	1
Di-n-butyl phthalate	ND		10	0.75	ug/L		10/21/20 08:53	10/21/20 21:14	1
Di-n-octyl phthalate	ND		10	1.4	ug/L		10/21/20 08:53	10/21/20 21:14	1
Diphenyl ether	ND		10	1.2	ug/L		10/21/20 08:53	10/21/20 21:14	1
Fluoranthene	ND		10	0.84	ug/L		10/21/20 08:53	10/21/20 21:14	1
Fluorene	ND		10	0.91	ug/L		10/21/20 08:53	10/21/20 21:14	1
Hexachlorobenzene	ND		1.0	0.91	ug/L		10/21/20 08:53	10/21/20 21:14	1
Hexachlorobutadiene	ND		1.0	0.44	ug/L		10/21/20 08:53	10/21/20 21:14	1
Hexachlorocyclopentadiene	ND		10	1.7	ug/L		10/21/20 08:53	10/21/20 21:14	1
Hexachloroethane	ND		2.0	1.2	ug/L		10/21/20 08:53	10/21/20 21:14	1
Indeno[1,2,3-cd]pyrene	ND		2.0	1.3	ug/L		10/21/20 08:53	10/21/20 21:14	1
Isophorone	ND		10	1.9	ug/L		10/21/20 08:53	10/21/20 21:14	1
Naphthalene	ND		2.0	1.1	ug/L		10/21/20 08:53	10/21/20 21:14	1
n-Decane	ND		10	1.3	ug/L		10/21/20 08:53	10/21/20 21:14	1
Nitrobenzene	ND		2.0	1.6	ug/L		10/21/20 08:53	10/21/20 21:14	1
N-Nitrosodimethylamine	ND		10	0.64	ug/L		10/21/20 08:53	10/21/20 21:14	1
N-Nitrosodi-n-propylamine	ND		2.0	0.98	ug/L		10/21/20 08:53	10/21/20 21:14	1
N-Nitrosodiphenylamine	ND		10	0.89	ug/L		10/21/20 08:53	10/21/20 21:14	1
Pentachlorophenol	ND		20	3.0	ug/L		10/21/20 08:53	10/21/20 21:14	1
Phenanthrene	ND		10	1.5	ug/L		10/21/20 08:53	10/21/20 21:14	1
Phenol	ND		10	1.2	ug/L		10/21/20 08:53	10/21/20 21:14	1
Pyrene	ND		10	1.6	ug/L		10/21/20 08:53	10/21/20 21:14	1
Pyridine	ND		10	5.9	ug/L		10/21/20 08:53	10/21/20 21:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*120*		*14 - 149*	*10/21/20 08:53*	*10/21/20 21:14*	*1*
2-Fluorobiphenyl	*86*		*44 - 129*	*10/21/20 08:53*	*10/21/20 21:14*	*1*
2-Fluorophenol	*49*		*10 - 76*	*10/21/20 08:53*	*10/21/20 21:14*	*1*
Nitrobenzene-d5	*97*		*15 - 314*	*10/21/20 08:53*	*10/21/20 21:14*	*1*
Phenol-d5	*33*		*8 - 424*	*10/21/20 08:53*	*10/21/20 21:14*	*1*
Terphenyl-d14	*93*		*28 - 150*	*10/21/20 08:53*	*10/21/20 21:14*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-733456/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 733647
Prep Batch: 733456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	80.0	69.1		ug/L		86	60 - 140
1,2,4-Trichlorobenzene	80.0	63.8		ug/L		80	44 - 142
1,2-Dichlorobenzene	80.0	60.2		ug/L		75	25 - 101
1,2-Diphenylhydrazine	80.0	59.4		ug/L		74	60 - 140
1,3-Dichlorobenzene	80.0	58.9		ug/L		74	25 - 101
1,4-Dichlorobenzene	80.0	58.3		ug/L		73	27 - 101
1-Methylnaphthalene	80.0	66.5		ug/L		83	60 - 140
2,2'-oxybis[1-chloropropane]	80.0	59.2		ug/L		74	36 - 166
2,3,4,6-Tetrachlorophenol	80.0	87.9		ug/L		110	60 - 140
2,4,6-Trichlorophenol	80.0	78.5		ug/L		98	37 - 144
2,4-Dichlorophenol	80.0	69.0		ug/L		86	39 - 135
2,4-Dimethylphenol	80.0	61.9		ug/L		77	32 - 120
2,4-Dinitrophenol	160	290		ug/L		181	0.1 - 191
2,4-Dinitrotoluene	80.0	96.5		ug/L		121	39 - 139
2,6-Dinitrotoluene	80.0	87.4		ug/L		109	50 - 158
2-Chloronaphthalene	80.0	69.4		ug/L		87	60 - 120
2-Chlorophenol	80.0	62.2		ug/L		78	55 - 101
2-Nitrophenol	80.0	86.0		ug/L		107	29 - 182
3,3'-Dichlorobenzidine	80.0	77.4		ug/L		97	0.1 - 262
4,6-Dinitro-2-methylphenol	160	223		ug/L		140	0.1 - 181
4-Bromophenyl phenyl ether	80.0	64.6		ug/L		81	53 - 127
4-Chloro-3-methylphenol	80.0	66.4		ug/L		83	22 - 147
4-Chlorophenyl phenyl ether	80.0	72.2		ug/L		90	25 - 158
4-Nitrophenol	160	76.5		ug/L		48	0.1 - 132
Acenaphthene	80.0	70.2		ug/L		88	47 - 135
Acenaphthylene	80.0	71.6		ug/L		90	33 - 145
Acetophenone	80.0	68.6		ug/L		86	60 - 140
Anthracene	80.0	69.9		ug/L		87	27 - 133
Benzidine	80.0	67.7		ug/L		85	0.1 - 136
Benzo[a]anthracene	80.0	65.7		ug/L		82	33 - 143
Benzo[a]pyrene	80.0	79.1		ug/L		99	17 - 163
Benzo[b]fluoranthene	80.0	78.4		ug/L		98	24 - 159
Benzo[g,h,i]perylene	80.0	95.4		ug/L		119	0.1 - 219
Benzo[k]fluoranthene	80.0	79.0		ug/L		99	11 - 162
Benzyl alcohol	80.0	52.1		ug/L		65	60 - 140
Bis(2-chloroethoxy)methane	80.0	67.3		ug/L		84	33 - 184
Bis(2-chloroethyl)ether	80.0	68.7		ug/L		86	12 - 158
Bis(2-ethylhexyl) phthalate	80.0	71.9		ug/L		90	8 - 158
Butyl benzyl phthalate	80.0	71.1		ug/L		89	0.1 - 152
Chrysene	80.0	68.5		ug/L		86	17 - 168
Dibenz(a,h)anthracene	80.0	95.7		ug/L		120	0.1 - 227
Diethyl phthalate	80.0	77.4		ug/L		97	0.1 - 120
Dimethyl phthalate	80.0	75.5		ug/L		94	0.1 - 120
Di-n-butyl phthalate	80.0	72.3		ug/L		90	1 - 120
Di-n-octyl phthalate	80.0	73.2		ug/L		92	4 - 146
Diphenyl ether	80.0	70.7		ug/L		88	60 - 140
Fluoranthene	80.0	82.1		ug/L		103	26 - 137
Fluorene	80.0	74.6		ug/L		93	59 - 121

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-733456/2-A
Matrix: Water
Analysis Batch: 733647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobenzene	80.0	70.0		ug/L		87	0.1 - 152
Hexachlorobutadiene	80.0	65.4		ug/L		82	24 - 120
Hexachlorocyclopentadiene	80.0	40.4		ug/L		51	8 - 105
Hexachloroethane	80.0	60.6		ug/L		76	40 - 120
Indeno[1,2,3-cd]pyrene	80.0	95.9		ug/L		120	0.1 - 171
Isophorone	80.0	70.5		ug/L		88	21 - 196
Naphthalene	80.0	68.1		ug/L		85	21 - 133
n-Decane	80.0	52.5		ug/L		66	0.1 - 107
Nitrobenzene	80.0	74.2		ug/L		93	35 - 180
N-Nitrosodimethylamine	80.0	42.9		ug/L		54	25 - 76
N-Nitrosodi-n-propylamine	80.0	67.1		ug/L		84	0.1 - 230
N-Nitrosodiphenylamine	80.0	64.5		ug/L		81	60 - 140
Pentachlorophenol	160	177		ug/L		111	14 - 176
Phenanthrene	80.0	68.8		ug/L		86	54 - 120
Phenol	80.0	31.4		ug/L		39	5 - 120
Pyrene	80.0	57.9		ug/L		72	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*123*		*14 - 149*
2-Fluorobiphenyl	*86*		*44 - 129*
2-Fluorophenol	*50*		*10 - 76*
Nitrobenzene-d5	*95*		*15 - 314*
Phenol-d5	*34*		*8 - 424*
Terphenyl-d14	*85*		*28 - 150*

Lab Sample ID: LCSD 460-733456/3-A
Matrix: Water
Analysis Batch: 733647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 733456

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	65.1		ug/L		81	60 - 140	6	50
1,2,4-Trichlorobenzene	80.0	55.6		ug/L		70	44 - 142	14	50
1,2-Dichlorobenzene	80.0	55.3		ug/L		69	25 - 101	9	50
1,2-Diphenylhydrazine	80.0	64.4		ug/L		81	60 - 140	8	50
1,3-Dichlorobenzene	80.0	48.0		ug/L		60	25 - 101	20	50
1,4-Dichlorobenzene	80.0	51.0		ug/L		64	27 - 101	13	50
1-Methylnaphthalene	80.0	63.4		ug/L		79	60 - 140	5	50
2,2'-oxybis[1-chloropropane]	80.0	62.0		ug/L		78	36 - 166	5	76
2,3,4,6-Tetrachlorophenol	80.0	90.6		ug/L		113	60 - 140	3	50
2,4,6-Trichlorophenol	80.0	82.5		ug/L		103	37 - 144	5	58
2,4-Dichlorophenol	80.0	74.8		ug/L		93	39 - 135	8	50
2,4-Dimethylphenol	80.0	68.2		ug/L		85	32 - 120	10	58
2,4-Dinitrophenol	160	319	*	ug/L		200	0.1 - 191	10	132
2,4-Dinitrotoluene	80.0	102		ug/L		127	39 - 139	5	42
2,6-Dinitrotoluene	80.0	90.8		ug/L		113	50 - 158	4	48
2-Chloronaphthalene	80.0	63.4		ug/L		79	60 - 120	9	24
2-Chlorophenol	80.0	65.4		ug/L		82	55 - 101	5	61
2-Nitrophenol	80.0	93.0		ug/L		116	29 - 182	8	55

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-733456/3-A
Matrix: Water
Analysis Batch: 733647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 733456

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	80.0	23.0		ug/L		29	0.1 - 262	108	108
4,6-Dinitro-2-methylphenol	160	253		ug/L		158	0.1 - 181	12	203
4-Bromophenyl phenyl ether	80.0	61.9		ug/L		77	53 - 127	4	43
4-Chloro-3-methylphenol	80.0	70.0		ug/L		87	22 - 147	5	73
4-Chlorophenyl phenyl ether	80.0	63.3		ug/L		79	25 - 158	13	61
4-Nitrophenol	160	68.8		ug/L		43	0.1 - 132	11	131
Acenaphthene	80.0	66.8		ug/L		84	47 - 135	5	48
Acenaphthylene	80.0	70.8		ug/L		89	33 - 145	1	74
Acetophenone	80.0	72.7		ug/L		91	60 - 140	6	50
Anthracene	80.0	71.9		ug/L		90	27 - 133	3	66
Benzidine	80.0	42.0		ug/L		52	0.1 - 136	47	50
Benzo[a]anthracene	80.0	72.4		ug/L		90	33 - 143	10	53
Benzo[a]pyrene	80.0	84.0		ug/L		105	17 - 163	6	72
Benzo[b]fluoranthene	80.0	83.8		ug/L		105	24 - 159	7	71
Benzo[g,h,i]perylene	80.0	101		ug/L		126	0.1 - 219	6	97
Benzo[k]fluoranthene	80.0	84.2		ug/L		105	11 - 162	6	63
Benzyl alcohol	80.0	57.7		ug/L		72	60 - 140	10	50
Bis(2-chloroethoxy)methane	80.0	72.0		ug/L		90	33 - 184	7	54
Bis(2-chloroethyl)ether	80.0	71.3		ug/L		89	12 - 158	4	108
Bis(2-ethylhexyl) phthalate	80.0	77.1		ug/L		96	8 - 158	7	82
Butyl benzyl phthalate	80.0	76.6		ug/L		96	0.1 - 152	8	60
Chrysene	80.0	76.4		ug/L		96	17 - 168	11	87
Dibenz(a,h)anthracene	80.0	104		ug/L		130	0.1 - 227	9	126
Diethyl phthalate	80.0	79.4		ug/L		99	0.1 - 120	3	100
Dimethyl phthalate	80.0	77.3		ug/L		97	0.1 - 120	2	183
Di-n-butyl phthalate	80.0	79.1		ug/L		99	1 - 120	9	47
Di-n-octyl phthalate	80.0	72.1		ug/L		90	4 - 146	2	69
Diphenyl ether	80.0	68.3		ug/L		85	60 - 140	3	50
Fluoranthene	80.0	84.1		ug/L		105	26 - 137	2	66
Fluorene	80.0	69.2		ug/L		86	59 - 121	8	38
Hexachlorobenzene	80.0	69.2		ug/L		87	0.1 - 152	1	55
Hexachlorobutadiene	80.0	29.5	*1	ug/L		37	24 - 120	76	62
Hexachlorocyclopentadiene	80.0	26.4		ug/L		33	8 - 105	42	50
Hexachloroethane	80.0	34.7	*1	ug/L		43	40 - 120	54	52
Indeno[1,2,3-cd]pyrene	80.0	105		ug/L		131	0.1 - 171	9	99
Isophorone	80.0	72.8		ug/L		91	21 - 196	3	93
Naphthalene	80.0	67.8		ug/L		85	21 - 133	0	65
n-Decane	80.0	15.5	*1	ug/L		19	0.1 - 107	109	50
Nitrobenzene	80.0	80.0		ug/L		100	35 - 180	8	62
N-Nitrosodimethylamine	80.0	44.5		ug/L		56	25 - 76	3	50
N-Nitrosodi-n-propylamine	80.0	72.5		ug/L		91	0.1 - 230	8	87
N-Nitrosodiphenylamine	80.0	69.1		ug/L		86	60 - 140	7	50
Pentachlorophenol	160	182		ug/L		114	14 - 176	3	86
Phenanthrene	80.0	70.4		ug/L		88	54 - 120	2	39
Phenol	80.0	28.7		ug/L		36	5 - 120	9	64
Pyrene	80.0	66.8		ug/L		84	52 - 120	14	49

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-733456/3-A
Matrix: Water
Analysis Batch: 733647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 733456

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*122*		*14 - 149*
2-Fluorobiphenyl	*74*		*44 - 129*
2-Fluorophenol	*51*		*10 - 76*
Nitrobenzene-d5	*89*		*15 - 314*
Phenol-d5	*33*		*8 - 424*
Terphenyl-d14	*94*		*28 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-734884/3
Matrix: Water
Analysis Batch: 734884

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		320	39	ug/L			10/25/20 17:58	1
Sulfate	ND		480	160	ug/L			10/25/20 17:58	1

Lab Sample ID: LCS 460-734884/5
Matrix: Water
Analysis Batch: 734884

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3200	3070		ug/L		96	90 - 110
Sulfate	4800	4900		ug/L		102	90 - 110

Lab Sample ID: LCSD 460-734884/6
Matrix: Water
Analysis Batch: 734884

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3200	3070		ug/L		96	90 - 110	0	15
Sulfate	4800	4900		ug/L		102	90 - 110	0	15

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 460-734126/1-A
Matrix: Water
Analysis Batch: 734828

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	11	ug/L		10/23/20 07:07	10/23/20 22:38	1
Antimony	ND		2.0	0.65	ug/L		10/23/20 07:07	10/23/20 22:38	1
Beryllium	ND		0.80	0.060	ug/L		10/23/20 07:07	10/23/20 22:38	1
Cadmium	ND		2.0	0.43	ug/L		10/23/20 07:07	10/23/20 22:38	1
Calcium	ND		200	22	ug/L		10/23/20 07:07	10/23/20 22:38	1
Chromium	ND		4.0	0.45	ug/L		10/23/20 07:07	10/23/20 22:38	1
Cobalt	ND		4.0	0.19	ug/L		10/23/20 07:07	10/23/20 22:38	1
Copper	ND		4.0	1.1	ug/L		10/23/20 07:07	10/23/20 22:38	1
Iron	ND		120	17	ug/L		10/23/20 07:07	10/23/20 22:38	1
Lead	0.144	J	1.2	0.071	ug/L		10/23/20 07:07	10/23/20 22:38	1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-734126/1-A
Matrix: Water
Analysis Batch: 734828

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		200	27	ug/L		10/23/20 07:07	10/23/20 22:38	1
Manganese	ND		8.0	0.75	ug/L		10/23/20 07:07	10/23/20 22:38	1
Nickel	ND		4.0	0.84	ug/L		10/23/20 07:07	10/23/20 22:38	1
Potassium	ND		200	84	ug/L		10/23/20 07:07	10/23/20 22:38	1
Selenium	ND		2.5	0.39	ug/L		10/23/20 07:07	10/23/20 22:38	1
Silver	ND		2.0	0.12	ug/L		10/23/20 07:07	10/23/20 22:38	1
Sodium	ND		200	20	ug/L		10/23/20 07:07	10/23/20 22:38	1
Thallium	ND		0.80	0.15	ug/L		10/23/20 07:07	10/23/20 22:38	1
Vanadium	ND		4.0	0.24	ug/L		10/23/20 07:07	10/23/20 22:38	1
Zinc	ND		16	2.6	ug/L		10/23/20 07:07	10/23/20 22:38	1

Lab Sample ID: MB 460-734126/1-A
Matrix: Water
Analysis Batch: 734901

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.61	ug/L		10/23/20 07:07	10/26/20 09:50	1
Barium	ND		4.0	1.0	ug/L		10/23/20 07:07	10/26/20 09:50	1

Lab Sample ID: LCS 460-734126/2-A
Matrix: Water
Analysis Batch: 734828

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2500	2650		ug/L		106	85 - 115
Antimony	25.0	27.2		ug/L		109	85 - 115
Beryllium	25.0	24.4		ug/L		98	85 - 115
Cadmium	25.0	25.7		ug/L		103	85 - 115
Calcium	2500	2680		ug/L		107	85 - 115
Chromium	50.0	51.5		ug/L		103	85 - 115
Cobalt	25.0	25.5		ug/L		102	85 - 115
Copper	50.0	53.6		ug/L		107	85 - 115
Iron	2500	2660		ug/L		107	85 - 115
Lead	25.0	25.5		ug/L		102	85 - 115
Magnesium	2500	2670		ug/L		107	85 - 115
Manganese	250	265		ug/L		106	85 - 115
Nickel	50.0	52.4		ug/L		105	85 - 115
Potassium	2500	2650		ug/L		106	85 - 115
Selenium	50.0	52.3		ug/L		105	85 - 115
Silver	25.0	24.9		ug/L		100	85 - 115
Sodium	2500	2720		ug/L		109	85 - 115
Thallium	20.0	19.4		ug/L		97	85 - 115
Vanadium	50.0	51.0		ug/L		102	85 - 115
Zinc	250	262		ug/L		105	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-734126/2-A
Matrix: Water
Analysis Batch: 734901

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			50.0	49.1		ug/L		98	85 - 115		
Barium			50.0	50.4		ug/L		101	85 - 115		

Lab Sample ID: 460-221019-S-3-C MS
Matrix: Water
Analysis Batch: 734828

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum	ND		2500	2240		ug/L		90	70 - 130		
Antimony	ND		25.0	23.2		ug/L		93	70 - 130		
Beryllium	ND		25.0	21.2		ug/L		85	70 - 130		
Cadmium	ND		25.0	22.8		ug/L		91	70 - 130		
Calcium	120000		2500	106000	4	ug/L		-699	70 - 130		
Chromium	ND		50.0	44.3		ug/L		89	70 - 130		
Cobalt	1.6	J	25.0	22.9		ug/L		85	70 - 130		
Copper	2.4	J	50.0	44.6		ug/L		85	70 - 130		
Iron	5500	F1	2500	6760	F1	ug/L		52	70 - 130		
Lead	0.17	J B	25.0	22.1		ug/L		88	70 - 130		
Magnesium	40000		2500	35300	4	ug/L		-181	70 - 130		
Manganese	2200		250	2040	4	ug/L		-60	70 - 130		
Nickel	2.5	J	50.0	44.9		ug/L		85	70 - 130		
Potassium	5000	F1	2500	6390	F1	ug/L		58	70 - 130		
Selenium	ND		50.0	46.3		ug/L		93	70 - 130		
Silver	ND		25.0	21.6		ug/L		87	70 - 130		
Sodium	170000		2500	146000	4	ug/L		-1037	70 - 130		
Thallium	ND		20.0	17.5		ug/L		87	70 - 130		
Vanadium	ND		50.0	43.8		ug/L		88	70 - 130		
Zinc	4.6	J	250	231		ug/L		90	70 - 130		

Lab Sample ID: 460-221019-S-3-C MS
Matrix: Water
Analysis Batch: 734901

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	1.2	J	50.0	47.1		ug/L		92	70 - 130		
Barium	170	F1	50.0	192	F1	ug/L		38	70 - 130		

Lab Sample ID: 460-221019-S-19-C DU
Matrix: Water
Analysis Batch: 734828

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	ND			ND		ug/L				NC	20
Antimony	ND			ND		ug/L				NC	20
Beryllium	ND			ND		ug/L				NC	20
Cadmium	ND			ND		ug/L				NC	20
Calcium	110000			106000		ug/L				8	20
Chromium	ND			ND		ug/L				NC	20
Cobalt	2.0	J		1.87	J	ug/L				6	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-221019-S-19-C DU
Matrix: Water
Analysis Batch: 734828

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Copper	1.4	J	1.13	J	ug/L		20	20
Iron	11000		10600		ug/L		7	20
Lead	0.099	J B	0.0980	J	ug/L		1	20
Magnesium	34000		32100		ug/L		7	20
Manganese	2900		2700		ug/L		6	20
Nickel	2.5	J	1.95	J F5	ug/L		25	20
Potassium	8100	F1	7470		ug/L		8	20
Selenium	4.4		3.76		ug/L		15	20
Silver	ND		ND		ug/L		NC	20
Sodium	110000		98900		ug/L		8	20
Thallium	ND		ND		ug/L		NC	20
Vanadium	ND		ND		ug/L		NC	20
Zinc	7.7	J	6.31	J	ug/L		20	20

Lab Sample ID: 460-221019-S-19-C DU
Matrix: Water
Analysis Batch: 734901

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	11		10.6		ug/L		6	20
Barium	300		281		ug/L		8	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 460-733869/1-A
Matrix: Water
Analysis Batch: 733935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		10/22/20 12:16	10/22/20 13:34	1

Lab Sample ID: LCS 460-733869/2-A
Matrix: Water
Analysis Batch: 733935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	1.03		ug/L		103	85 - 115

Lab Sample ID: 460-221072-D-5-C MS
Matrix: Water
Analysis Batch: 733935

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 733869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	1.04		ug/L		104	70 - 130

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 460-221072-D-5-B DU
Matrix: Water
Analysis Batch: 733935

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 733869

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		ug/L		NC	20

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 460-734247/1
Matrix: Water
Analysis Batch: 734247

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	ND		5.0	5.0	mg/L			10/23/20 15:16	1

Lab Sample ID: LCS 460-734247/2
Matrix: Water
Analysis Batch: 734247

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM	40.0	33.70		mg/L		84	78 - 114

Lab Sample ID: LCSD 460-734247/3
Matrix: Water
Analysis Batch: 734247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM	40.0	33.50		mg/L		84	78 - 114	1	18

Lab Sample ID: 460-221019-AG-1 MS
Matrix: Water
Analysis Batch: 734247

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM	ND		40.0	33.80		mg/L		85	78 - 114

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 460-733528/10
Matrix: Water
Analysis Batch: 733528

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	0.112	J	0.50	0.11	NTU			10/21/20 14:15	1

Lab Sample ID: LCSSRM 460-733528/11
Matrix: Water
Analysis Batch: 733528

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Turbidity	13.0	12.9		NTU		99.2	84.6 - 115.4

Method: 180.1 - Turbidity, Nephelometric (Continued)

Lab Sample ID: 460-221026-1 DU
Matrix: Water
Analysis Batch: 733528

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Turbidity	5.4	B		5.38		NTU				0.6	10

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 460-734865/1-A
Matrix: Water
Analysis Batch: 734914

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		50	41	ug/L		10/26/20 10:34	10/26/20 13:11	1

Lab Sample ID: LCS 460-734865/2-A
Matrix: Water
Analysis Batch: 734914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734865

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total			400	354		ug/L		89	86 - 118		

Lab Sample ID: MRL 460-734914/11
Matrix: Water
Analysis Batch: 734914

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total			0.0500	0.0473	J	mg/L		95	50 - 150		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 460-734210/1
Matrix: Water
Analysis Batch: 734210

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		1000	1000	ug/L			10/23/20 11:39	1

Lab Sample ID: LCSSRM 460-734210/2
Matrix: Water
Analysis Batch: 734210

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			632000	668000		ug/L		105.7	89.9 - 110.0		

Lab Sample ID: 460-221019-AB-19 DU
Matrix: Water
Analysis Batch: 734210

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	810000			864000	F3	ug/L				6	5

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 460-734119/1
Matrix: Water
Analysis Batch: 734119

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2500	2500	ug/L			10/23/20 06:54	1

Lab Sample ID: LCSSRM 460-734119/2
Matrix: Water
Analysis Batch: 734119

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	78700	78000		ug/L		99.1	81.4 - 111.6

Lab Sample ID: 460-220787-B-1 DU
Matrix: Water
Analysis Batch: 734119

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	55000		54500		ug/L		3	5

Method: SM 2540F - Solids, Settleable

Lab Sample ID: MB 460-733529/1
Matrix: Water
Analysis Batch: 733529

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			10/21/20 08:45	1

Method: SM 4500 H+ B - pH

Lab Sample ID: MB 460-734652/2
Matrix: Water
Analysis Batch: 734652

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.1		0.1	0.1	SU			10/25/20 13:20	1
Temperature	22.1		0.1	0.1	Degrees C			10/25/20 13:20	1

Lab Sample ID: LCSSRM 460-734652/3
Matrix: Water
Analysis Batch: 734652

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
pH	8.31	8.2		SU		98.3	97.6 - 102.4

Lab Sample ID: 460-221026-1 DU
Matrix: Water
Analysis Batch: 734652

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.5	HF	8.5		SU		0.1	10
Temperature	20.9	HF	21.0		Degrees C		0.5	

GC/MS VOA

Analysis Batch: 733766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	8260D	
460-221026-2	QAQC_TB	Total/NA	Water	8260D	
MB 460-733766/8	Method Blank	Total/NA	Water	8260D	
LCS 460-733766/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-733766/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 734016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-2	QAQC_TB	Total/NA	Water	624.1	
MB 460-734016/7	Method Blank	Total/NA	Water	624.1	
LCS 460-734016/3	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-734016/4	Lab Control Sample Dup	Total/NA	Water	624.1	

Analysis Batch: 734818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	624.1	
MB 460-734818/10	Method Blank	Total/NA	Water	624.1	
LCS 460-734818/5	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-734818/6	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 733456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	625	
MB 460-733456/1-A	Method Blank	Total/NA	Water	625	
LCS 460-733456/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 460-733456/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 733647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	625.1	733456
MB 460-733456/1-A	Method Blank	Total/NA	Water	625.1	733456
LCS 460-733456/2-A	Lab Control Sample	Total/NA	Water	625.1	733456
LCSD 460-733456/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	733456

HPLC/IC

Analysis Batch: 734884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	300.0	
MB 460-734884/3	Method Blank	Total/NA	Water	300.0	
LCS 460-734884/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-734884/6	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 733869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	245.1	
MB 460-733869/1-A	Method Blank	Total/NA	Water	245.1	
LCS 460-733869/2-A	Lab Control Sample	Total/NA	Water	245.1	

Metals (Continued)

Prep Batch: 733869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221072-D-5-C MS	Matrix Spike	Total/NA	Water	245.1	
460-221072-D-5-B DU	Duplicate	Total/NA	Water	245.1	

Analysis Batch: 733935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	245.1	733869
MB 460-733869/1-A	Method Blank	Total/NA	Water	245.1	733869
LCS 460-733869/2-A	Lab Control Sample	Total/NA	Water	245.1	733869
460-221072-D-5-C MS	Matrix Spike	Total/NA	Water	245.1	733869
460-221072-D-5-B DU	Duplicate	Total/NA	Water	245.1	733869

Prep Batch: 734126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total Recoverable	Water	200.8	
MB 460-734126/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 460-734126/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
460-221019-S-3-C MS	Matrix Spike	Total Recoverable	Water	200.8	
460-221019-S-19-C DU	Duplicate	Total Recoverable	Water	200.8	

Analysis Batch: 734828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total Recoverable	Water	200.8	734126
MB 460-734126/1-A	Method Blank	Total Recoverable	Water	200.8	734126
LCS 460-734126/2-A	Lab Control Sample	Total Recoverable	Water	200.8	734126
460-221019-S-3-C MS	Matrix Spike	Total Recoverable	Water	200.8	734126
460-221019-S-19-C DU	Duplicate	Total Recoverable	Water	200.8	734126

Analysis Batch: 734901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total Recoverable	Water	200.8	734126
MB 460-734126/1-A	Method Blank	Total Recoverable	Water	200.8	734126
LCS 460-734126/2-A	Lab Control Sample	Total Recoverable	Water	200.8	734126
460-221019-S-3-C MS	Matrix Spike	Total Recoverable	Water	200.8	734126
460-221019-S-19-C DU	Duplicate	Total Recoverable	Water	200.8	734126

General Chemistry

Analysis Batch: 733528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	180.1	
MB 460-733528/10	Method Blank	Total/NA	Water	180.1	
LCSSRM 460-733528/11	Lab Control Sample	Total/NA	Water	180.1	
460-221026-1 DU	ORS-EFFLUENT	Total/NA	Water	180.1	

Analysis Batch: 733529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	SM 2540F	
MB 460-733529/1	Method Blank	Total/NA	Water	SM 2540F	

General Chemistry

Analysis Batch: 734119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	SM 2540D	
MB 460-734119/1	Method Blank	Total/NA	Water	SM 2540D	
LCSSRM 460-734119/2	Lab Control Sample	Total/NA	Water	SM 2540D	
460-220787-B-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 734210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	SM 2540C	
MB 460-734210/1	Method Blank	Total/NA	Water	SM 2540C	
LCSSRM 460-734210/2	Lab Control Sample	Total/NA	Water	SM 2540C	
460-221019-AB-19 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 734247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	1664A	
MB 460-734247/1	Method Blank	Total/NA	Water	1664A	
LCS 460-734247/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 460-734247/3	Lab Control Sample Dup	Total/NA	Water	1664A	
460-221019-AG-1 MS	Matrix Spike	Total/NA	Water	1664A	

Analysis Batch: 734652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	SM 4500 H+ B	
MB 460-734652/2	Method Blank	Total/NA	Water	SM 4500 H+ B	
LCSSRM 460-734652/3	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
460-221026-1 DU	ORS-EFFLUENT	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 734865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	Distill/Phenol	
MB 460-734865/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 460-734865/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 734914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	420.1	734865
MB 460-734865/1-A	Method Blank	Total/NA	Water	420.1	734865
LCS 460-734865/2-A	Lab Control Sample	Total/NA	Water	420.1	734865
MRL 460-734914/11	Lab Control Sample	Total/NA	Water	420.1	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221026-1

Client Sample ID: ORS-EFFLUENT

Lab Sample ID: 460-221026-1

Date Collected: 10/20/20 09:50
Matrix: Water
Date Received: 10/20/20 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	734818	10/26/20 12:27	EMM	TAL EDI
Total/NA	Analysis	8260D		1	733766	10/22/20 12:35	CJM	TAL EDI
Total/NA	Prep	625			733456	10/21/20 08:53	RPC	TAL EDI
Total/NA	Analysis	625.1		1	733647	10/22/20 02:18	MME	TAL EDI
Total/NA	Analysis	300.0		10	734884	10/26/20 01:23	CDC	TAL EDI
Total Recoverable	Prep	200.8			734126	10/23/20 07:07	GMC	TAL EDI
Total Recoverable	Analysis	200.8		1	734901	10/26/20 11:37	MDC	TAL EDI
Total Recoverable	Prep	200.8			734126	10/23/20 07:07	GMC	TAL EDI
Total Recoverable	Analysis	200.8		1	734828	10/23/20 23:38	VAD	TAL EDI
Total/NA	Prep	245.1			733869	10/22/20 12:16	RBS	TAL EDI
Total/NA	Analysis	245.1		1	733935	10/22/20 13:47	RBS	TAL EDI
Total/NA	Analysis	1664A		1	734247	10/23/20 15:16	AAA	TAL EDI
Total/NA	Analysis	180.1		1	733528	10/21/20 14:15	VBG	TAL EDI
Total/NA	Prep	Distill/Phenol			734865	10/26/20 10:34	RAK	TAL EDI
Total/NA	Analysis	420.1		1	734914	10/26/20 13:18	HTV	TAL EDI
Total/NA	Analysis	SM 2540C		1	734210	10/23/20 11:39	PLS	TAL EDI
Total/NA	Analysis	SM 2540D		1	734119	10/23/20 07:10	AAP	TAL EDI
Total/NA	Analysis	SM 2540F		1	733529	10/21/20 10:00	VBG	TAL EDI
Total/NA	Analysis	SM 4500 H+ B		1	734652	10/25/20 13:26	AAP	TAL EDI

Client Sample ID: QAQC_TB

Lab Sample ID: 460-221026-2

Date Collected: 10/20/20 09:50
Matrix: Water
Date Received: 10/20/20 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	734016	10/22/20 23:49	EMM	TAL EDI
Total/NA	Analysis	8260D		1	733766	10/22/20 11:23	CJM	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221026-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

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
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	4-Methyl-2-pentanone (MIBK)
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Diisopropyl ether
624.1		Water	Ethyl acetate
624.1		Water	Hexachlorobutadiene
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	sec-Butylbenzene
624.1		Water	tert-Butylbenzene
625.1	625	Water	1,1'-Biphenyl
625.1	625	Water	1,2,4,5-Tetrachlorobenzene
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
625.1	625	Water	1,4-Dioxane

Laboratory: Eurofins TestAmerica, Edison (Continued)

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

625.1	625	Water	1-Methylnaphthalene
625.1	625	Water	2,3,4,6-Tetrachlorophenol
625.1	625	Water	2-Methylnaphthalene
625.1	625	Water	2-Nitroaniline
625.1	625	Water	3-Nitroaniline
625.1	625	Water	4-Chloroaniline
625.1	625	Water	4-Nitroaniline
625.1	625	Water	Benzoic acid
625.1	625	Water	Benzyl alcohol
625.1	625	Water	Dibenzofuran
625.1	625	Water	Diphenyl ether
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221026-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
200.8	Metals (ICP/MS)	EPA	TAL EDI
245.1	Mercury (CVAA)	EPA	TAL EDI
1664A	HEM and SGT-HEM	1664A	TAL EDI
180.1	Turbidity, Nephelometric	MCAWW	TAL EDI
420.1	Phenolics, Total Recoverable	MCAWW	TAL EDI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL EDI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL EDI
SM 2540F	Solids, Settleable	SM	TAL EDI
SM 4500 H+ B	pH	SM	TAL EDI
200.8	Preparation, Total Recoverable Metals	EPA	TAL EDI
245.1	Preparation, Mercury	EPA	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
625	Liquid-Liquid Extraction	40CFR136A	TAL EDI
Distill/Phenol	Distillation, Phenolics	None	TAL EDI

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221026-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-221026-1	ORS-EFFLUENT	Water	10/20/20 09:50	10/20/20 18:00	
460-221026-2	QAQC_TB	Water	10/20/20 09:50	10/20/20 18:00	

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: TG	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-130510-84480.1
Client Contact: Matthew Mueller	Phone:	E-Mail: Melissa.Haas@Eurofinset.com		Page: Page 1 of 1
Company: Roux Environmental Eng & Geology DPC				Job #:
Address: 209 Shafter St	Due Date Requested:			
City: Islandia	TAT Requested (days): 5 Day (See comments)			
State, Zip: NY, 11749				
Phone: 716-472-2725(Tel)	PO #: 0172.0030Y060			
Email: mmueller@rouxinc.com	WO #:			
Project Name: EMGPRP-31097	Project #: 46032869			
Analysis Group: Annual Performance Sampling	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Volatile Organic Compounds Method:624.1_PREC	Volatile Organic Compounds (MEK, MTBE, Acetone) Method: 8260C	GRO Method: 8015D_GRO	ORO/DRO Method: 8015D-DRO	Semivolatile Organic Compounds Method: 625.1_PREC	Metals (TAL) Method: 200.8	Mercury Method: 245.1	Langalier Index Method: 203	Anions, Ion Chromatography Method: 300_ORGFM_28D	Nitrogen, Total Kjeldahl Method: 351.2	Nitrogen, Nitrate-Nitrite Method: 353.2	Phosphorus Method: 4500_P_E	Phenolics, Total Recoverable Method: 420.1	HEM and SGT-HEM Method: 1664A_NP	pH Method: SM4500_H+	COD Method: 410.3	Turbidity, Nephelometric Method: 180.1	Alkalinity Method: 2320B	Hardness, Total (mg/l as CaCO3) Method: 2340C	Conductivity, Specific Conductance Method: 2510B	Solids, Total Dissolved (TDS) Method: 2540C	Solids, Total Suspended (TSS) Method: 2540D	Solids, Settleable Method: SM2540F	BOD, 5-Day Method: 5210B	Dissolved Gases (GC) (Methane, Ethane, Ethene) Method: RSK_175	Organochlorine Pesticides in Water Method: 608.3_PREC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	N	N	D	D	N	N	S	N	S	S	A	N	S	N	N	N	N	N	N	N	N	A	N		
ORS-EFFLUENT	10/20/20	9:50	G	W	N	N	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	28	Methods 203, 351.2, 353.2, 4500_P_E, 410.3, 2320B, 2340C, 2510B, 5210B, RSK_175, 608.3_PREC to be reported separately (10 Day TAT) Field Temp: 16.76°C Field pH: 7.86
QAQC_TB	10/9/20	N/A	N/A	W			X	X																										Trip Blank 2

460-221026 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

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

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

Deliverable Requested: I, II, III, IV, Other (specify): Level 2, EDD (EQuIS and Excel)

Special Instructions/QC Requirements: **NOTE SHORT HOLDS**

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

	Date/Time	Company		Date/Time	Company
Relinquished by: Natalie S.	10/20/2020 16:00	Roux	Received by: Samuel	10/20/2020 16:00	
Relinquished by: Samuel	10/20/20 1800	Company	Received by: Remmelt	10/20/20 1800	Company TA Edi
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 007300 | Cooler Temperature(s) °C and Other Remarks: 0.7°C/R#1

0.7 IR 11

Ver: 01/16/2019

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 221026

Number of Coolers: 1 **IR Gun #** 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.8 °C	°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1		<2		<2	<2			<2		<2			<2		

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: [illegible] **Date:** 10 20 20

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-221026-1

Login Number: 221026
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-221026-2
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

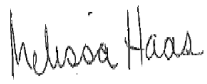
Attn: Matthew Mueller

Melissa Haas

Authorized for release by:
10/29/2020 6:41:58 AM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/29/2020 6:41:58 AM

Table of Contents

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221026-2
Project/Site: EMGPRP-31097

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 460-221026-2

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: EMGPRP-31097

Report Number: 460-221026-2

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 10/20/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions

Per laboratory policy the Trip Blank sample date/time was changed to reflect the latest sample date/time of the sampling event. QAQC_TB (460-221026-2)

Field temperature/pH data was provided by the client.

DISSOLVED GASES
Sample ORS-EFFLUENT (460-221026-1) was analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/27/2020.

No difficulties were encountered during the dissolved gases analysis.

All quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES AND POLYCHLORINATED BIPHENYLS BY GAS CHROMATOGRAPHY
Sample ORS-EFFLUENT (460-221026-1) was analyzed for Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography in accordance with 608.3. The samples were prepared on 10/21/2020 and analyzed on 10/22/2020.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-733553 and analytical batch 460-733527 recovered outside control limits for the following analytes: Endrin ketone. These analytes were biased high in the LCS and LCSD and were not detected in the associated samples; therefore, the data have been reported.

Job ID: 460-221026-2 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

No other difficulties were encountered during the Pesticides/PCBs analysis.

All other quality control parameters were within the acceptance limits.

LANGLIER INDEX
Sample ORS-EFFLUENT (460-221026-1) was analyzed for Langlier Index in accordance with SM203. The samples were analyzed on 10/26/2020.

No difficulties were encountered during the Langlier Index analysis.

All quality control parameters were within the acceptance limits.

ALKALINITY
Sample ORS-EFFLUENT (460-221026-1) was analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 10/21/2020.

No difficulties were encountered during the alkalinity analysis.

All quality control parameters were within the acceptance limits.

HARDNESS
Sample ORS-EFFLUENT (460-221026-1) was analyzed for hardness in accordance with SM 2340C. The samples were analyzed on 10/24/2020.

No difficulties were encountered during the hardness analysis.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTANCE
Sample ORS-EFFLUENT (460-221026-1) was analyzed for specific conductance in accordance with SM 2510B. The samples were analyzed on 10/21/2020.

No difficulties were encountered during the specific conductance analysis.

All quality control parameters were within the acceptance limits.

TOTAL KJELDAHL NITROGEN
Sample ORS-EFFLUENT (460-221026-1) was analyzed for total kjeldahl nitrogen in accordance with EPA Method 351.2. The samples were prepared on 10/26/2020 and analyzed on 10/27/2020.

No difficulties were encountered during the TKN analysis.

All quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN
Sample ORS-EFFLUENT (460-221026-1) was analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 10/21/2020.

Nitrate as N and Nitrate Nitrite as N failed the recovery criteria low for the MS of sample 460-221019-1 in batch 460-733675.

Nitrate as N and Nitrate Nitrite as N failed the recovery criteria low for the MSD of sample 460-221019-1 in batch 460-733675.

Nitrate as N and Nitrate Nitrite as N failed the recovery criteria low for the MS of sample 460-221019-15 in batch 460-733675.

Job ID: 460-221026-2 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

Nitrate as N failed the recovery criteria low for the MSD of sample 460-221019-15 in batch 460-733675.

Refer to the QC report for details.

No other difficulties were encountered during the nitrate-nitrite analysis.

All other quality control parameters were within the acceptance limits.

CHEMICAL OXYGEN DEMAND
Sample ORS-EFFLUENT (460-221026-1) was analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were analyzed on 10/23/2020.

No difficulties were encountered during the COD analysis.

All quality control parameters were within the acceptance limits.

PHOSPHORUS AS P
Sample ORS-EFFLUENT (460-221026-1) was analyzed for phosphorus as P in accordance with SM 4500 P E. The samples were prepared and analyzed on 10/25/2020.

No difficulties were encountered during the phosphorus analysis.

All quality control parameters were within the acceptance limits.

BIOCHEMICAL OXYGEN DEMAND 5 DAY
Sample ORS-EFFLUENT (460-221026-1) was analyzed for Biochemical Oxygen Demand 5 Day in accordance with SM 5210B. The samples were analyzed on 10/21/2020.

No difficulties were encountered during the BOD5 analysis.

All quality control parameters were within the acceptance limits.

FIELD TEMPERATURE
Sample ORS-EFFLUENT (460-221026-1) was analyzed for field Temperature by the client.

FIELD PH
Sample ORS-EFFLUENT (460-221026-1) was analyzed for field pH by the client.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221026-2
Project/Site: EMGPRP-31097

Client Sample ID: ORS-EFFLUENT
Lab Sample ID: 460-221026-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Langelier Index	0.90				LangSU	1		203	Total/NA
Total Kjeldahl Nitrogen	840		200	180	ug/L	1		351.2	Total/NA
Nitrate as N	920		100	16	ug/L	1		353.2	Total/NA
Nitrate Nitrite as N	960		100	22	ug/L	1		353.2	Total/NA
Nitrite as N	36	J	100	10	ug/L	1		353.2	Total/NA
Chemical Oxygen Demand	92000		10000	3300	ug/L	1		410.4	Total/NA
Total Alkalinity	370000		5000	5000	ug/L	1		SM 2320B	Total/NA
Hardness as calcium carbonate	600000		25000	25000	ug/L	1		SM 2340C	Total/NA
Specific Conductance	2800		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA
Phosphorus as P	110		30	23	ug/L	1		SM 4500 P E	Total/NA
Temperature	16.76				Degrees C	1		2550B	Total/NA
Field pH	7.86				SU	1		SM4500 H+	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ORS-EFFLUENT
Lab Sample ID: 460-221026-1

Date Collected: 10/20/20 09:50
Matrix: Water

Date Received: 10/20/20 18:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/27/20 10:23	1
Ethene	ND		7.0	1.5	ug/L			10/27/20 10:23	1
Methane	ND		4.0	1.0	ug/L			10/27/20 10:23	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.040	0.0040	ug/L		10/21/20 14:44	10/22/20 08:52	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/21/20 14:44	10/22/20 08:52	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 08:52	1
Aldrin	ND		0.020	0.0030	ug/L		10/21/20 14:44	10/22/20 08:52	1
alpha-BHC	ND		0.020	0.013	ug/L		10/21/20 14:44	10/22/20 08:52	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 08:52	1
beta-BHC	ND		0.030	0.013	ug/L		10/21/20 14:44	10/22/20 08:52	1
Chlordane	ND		0.50	0.22	ug/L		10/21/20 14:44	10/22/20 08:52	1
delta-BHC	ND		0.020	0.0020	ug/L		10/21/20 14:44	10/22/20 08:52	1
Dieldrin	ND		0.020	0.0080	ug/L		10/21/20 14:44	10/22/20 08:52	1
Endosulfan I	ND		0.030	0.023	ug/L		10/21/20 14:44	10/22/20 08:52	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 08:52	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 08:52	1
Endrin	ND		0.030	0.025	ug/L		10/21/20 14:44	10/22/20 08:52	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 08:52	1
Endrin ketone	ND		0.030	0.014	ug/L		10/21/20 14:44	10/22/20 08:52	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 08:52	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/21/20 14:44	10/22/20 08:52	1
Heptachlor	ND		0.030	0.0080	ug/L		10/21/20 14:44	10/22/20 08:52	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 08:52	1
Methoxychlor	ND		0.040	0.036	ug/L		10/21/20 14:44	10/22/20 08:52	1
Toxaphene	ND		0.50	0.035	ug/L		10/21/20 14:44	10/22/20 08:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*10 - 150*	*10/21/20 14:44*	*10/22/20 08:52*	*1*
DCB Decachlorobiphenyl	*110*		*10 - 150*	*10/21/20 14:44*	*10/22/20 08:52*	*1*
Tetrachloro-m-xylene	*107*		*10 - 150*	*10/21/20 14:44*	*10/22/20 08:52*	*1*
Tetrachloro-m-xylene	*104*		*10 - 150*	*10/21/20 14:44*	*10/22/20 08:52*	*1*

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Langelier Index	**0.90**				LangSU			10/26/20 15:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	**840**		200	180	ug/L		10/26/20 10:20	10/27/20 09:41	1
Nitrate as N	**920**		100	16	ug/L			10/21/20 16:39	1
Nitrate Nitrite as N	**960**		100	22	ug/L			10/21/20 16:39	1
Nitrite as N	**36**	**J**	100	10	ug/L			10/21/20 16:39	1
Chemical Oxygen Demand	**92000**		10000	3300	ug/L			10/23/20 14:23	1
Phosphorus as P	**110**		30	23	ug/L		10/25/20 11:30	10/25/20 14:00	1
Biochemical Oxygen Demand	ND		1000	1000	ug/L			10/21/20 09:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	**370000**		5000	5000	ug/L			10/21/20 17:54	1
Hardness as calcium carbonate	**600000**		25000	25000	ug/L			10/24/20 14:04	1
Specific Conductance	**2800**		1.0	1.0	umhos/cm			10/21/20 14:30	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221026-2

Client Sample ID: ORS-EFFLUENT
Date Collected: 10/20/20 09:50
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221026-1
Matrix: Water

Method: 2550B - Temperature (Field)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	16.76				Degrees C			10/20/20 09:49	1

Method: SM4500 H+ - pH, Field

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.86				SU			10/20/20 09:50	1

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221026-2
Project/Site: EMGPRP-31097

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCBP1 (10-150)	DCBP2 (10-150)	TCX1 (10-150)	TCX2 (10-150)				
460-221026-1	ORS-EFFLUENT	110	98	104	107				
LCS 460-733553/2-A	Lab Control Sample	91	87	89	87				
LCSD 460-733553/3-A	Lab Control Sample Dup	92	90	90	89				
MB 460-733553/1-A	Method Blank	125	85	89	84				

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-555871/3
Matrix: Water
Analysis Batch: 555871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/27/20 06:55	1
Ethene	ND		7.0	1.5	ug/L			10/27/20 06:55	1
Methane	ND		4.0	1.0	ug/L			10/27/20 06:55	1

Lab Sample ID: LCS 480-555871/4
Matrix: Water
Analysis Batch: 555871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	34.9		ug/L		95	79 - 120
Ethene	33.7	34.7		ug/L		103	85 - 120
Methane	19.2	18.1		ug/L		94	85 - 120

Lab Sample ID: LCSD 480-555871/5
Matrix: Water
Analysis Batch: 555871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	36.8	37.3		ug/L		101	79 - 120	7	50
Ethene	33.7	33.9		ug/L		100	85 - 120	2	50
Methane	19.2	19.3		ug/L		100	85 - 120	6	50

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Lab Sample ID: MB 460-733553/1-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.040	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
4,4'-DDD	ND		0.040	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/21/20 14:44	10/22/20 11:55	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/21/20 14:44	10/22/20 11:55	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
Aldrin	ND		0.020	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
Aldrin	ND		0.020	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
alpha-BHC	ND		0.020	0.013	ug/L		10/21/20 14:44	10/22/20 11:55	1
alpha-BHC	ND		0.020	0.013	ug/L		10/21/20 14:44	10/22/20 11:55	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
beta-BHC	ND		0.030	0.013	ug/L		10/21/20 14:44	10/22/20 11:55	1
beta-BHC	ND		0.030	0.013	ug/L		10/21/20 14:44	10/22/20 11:55	1
Chlordane	ND		0.50	0.22	ug/L		10/21/20 14:44	10/22/20 11:55	1
Chlordane	ND		0.50	0.22	ug/L		10/21/20 14:44	10/22/20 11:55	1
delta-BHC	ND		0.020	0.0020	ug/L		10/21/20 14:44	10/22/20 11:55	1
delta-BHC	ND		0.020	0.0020	ug/L		10/21/20 14:44	10/22/20 11:55	1
Dieldrin	ND		0.020	0.0080	ug/L		10/21/20 14:44	10/22/20 11:55	1
Dieldrin	ND		0.020	0.0080	ug/L		10/21/20 14:44	10/22/20 11:55	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: MB 460-733553/1-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.030	0.023	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endosulfan I	ND		0.030	0.023	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin	ND		0.030	0.025	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin	ND		0.030	0.025	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin ketone	ND		0.030	0.014	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin ketone	ND		0.030	0.014	ug/L		10/21/20 14:44	10/22/20 11:55	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/21/20 14:44	10/22/20 11:55	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/21/20 14:44	10/22/20 11:55	1
Heptachlor	ND		0.030	0.0080	ug/L		10/21/20 14:44	10/22/20 11:55	1
Heptachlor	ND		0.030	0.0080	ug/L		10/21/20 14:44	10/22/20 11:55	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
Methoxychlor	ND		0.040	0.036	ug/L		10/21/20 14:44	10/22/20 11:55	1
Methoxychlor	ND		0.040	0.036	ug/L		10/21/20 14:44	10/22/20 11:55	1
Toxaphene	ND		0.50	0.035	ug/L		10/21/20 14:44	10/22/20 11:55	1
Toxaphene	ND		0.50	0.035	ug/L		10/21/20 14:44	10/22/20 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*10 - 150*	*10/21/20 14:44*	*10/22/20 11:55*	*1*
DCB Decachlorobiphenyl	*125*		*10 - 150*	*10/21/20 14:44*	*10/22/20 11:55*	*1*
Tetrachloro-m-xylene	*84*		*10 - 150*	*10/21/20 14:44*	*10/22/20 11:55*	*1*
Tetrachloro-m-xylene	*89*		*10 - 150*	*10/21/20 14:44*	*10/22/20 11:55*	*1*

Lab Sample ID: LCS 460-733553/2-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.800	0.895		ug/L		112	31 - 141
4,4'-DDD	0.800	0.957		ug/L		120	31 - 141
4,4'-DDE	0.800	0.910		ug/L		114	30 - 145
4,4'-DDE	0.800	0.979		ug/L		122	30 - 145
4,4'-DDT	0.800	0.887		ug/L		111	25 - 160
4,4'-DDT	0.800	0.932		ug/L		116	25 - 160
Aldrin	0.800	1.03		ug/L		128	42 - 140
Aldrin	0.800	0.960		ug/L		120	42 - 140
alpha-BHC	0.800	0.953		ug/L		119	37 - 140
alpha-BHC	0.800	0.955		ug/L		119	37 - 140
alpha-Chlordane	0.800	0.807		ug/L		101	45 - 140
alpha-Chlordane	0.800	0.953		ug/L		119	45 - 140

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCS 460-733553/2-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	0.800	0.866		ug/L		108	17 - 147
beta-BHC	0.800	0.887		ug/L		111	17 - 147
delta-BHC	0.800	1.02		ug/L		127	19 - 140
delta-BHC	0.800	1.01		ug/L		126	19 - 140
Dieldrin	0.800	0.884		ug/L		110	36 - 146
Dieldrin	0.800	0.908		ug/L		113	36 - 146
Endosulfan I	0.800	0.954		ug/L		119	45 - 153
Endosulfan I	0.800	0.973		ug/L		122	45 - 153
Endosulfan II	0.800	0.886		ug/L		111	0.1 - 202
Endosulfan II	0.800	0.900		ug/L		112	0.1 - 202
Endosulfan sulfate	0.800	0.912		ug/L		114	26 - 144
Endosulfan sulfate	0.800	1.11		ug/L		139	26 - 144
Endrin	0.800	0.912		ug/L		114	30 - 147
Endrin	0.800	0.907		ug/L		113	30 - 147
Endrin aldehyde	0.800	0.859		ug/L		107	60 - 150
Endrin aldehyde	0.800	0.838		ug/L		105	60 - 150
Endrin ketone	0.800	1.34	*	ug/L		168	17 - 150
Endrin ketone	0.800	0.883		ug/L		110	17 - 150
gamma-BHC (Lindane)	0.800	0.964		ug/L		121	32 - 140
gamma-BHC (Lindane)	0.800	0.934		ug/L		117	32 - 140
gamma-Chlordane	0.800	0.883		ug/L		110	45 - 140
gamma-Chlordane	0.800	0.940		ug/L		118	45 - 140
Heptachlor	0.800	0.807		ug/L		101	34 - 140
Heptachlor	0.800	0.845		ug/L		106	34 - 140
Heptachlor epoxide	0.800	0.898		ug/L		112	37 - 142
Heptachlor epoxide	0.800	0.926		ug/L		116	37 - 142
Methoxychlor	0.800	0.760		ug/L		95	64 - 150
Methoxychlor	0.800	0.765		ug/L		96	64 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*87*		*10 - 150*
DCB Decachlorobiphenyl	*91*		*10 - 150*
Tetrachloro-m-xylene	*87*		*10 - 150*
Tetrachloro-m-xylene	*89*		*10 - 150*

Lab Sample ID: LCSD 460-733553/3-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 733553

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.800	0.921		ug/L		115	31 - 141	NaN	39
4,4'-DDD	0.800	0.967		ug/L		121	31 - 141	NaN	39
4,4'-DDE	0.800	0.943		ug/L		118	30 - 145	NaN	35
4,4'-DDE	0.800	0.992		ug/L		124	30 - 145	NaN	35
4,4'-DDT	0.800	0.917		ug/L		115	25 - 160	NaN	32
4,4'-DDT	0.800	0.952		ug/L		119	25 - 160	NaN	32
Aldrin	0.800	1.06		ug/L		133	42 - 140	NaN	35
Aldrin	0.800	0.966		ug/L		121	42 - 140	NaN	35

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCSD 460-733553/3-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 733553

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC			0.800	0.984		ug/L		123	37 - 140	NaN	36
alpha-BHC			0.800	0.972		ug/L		122	37 - 140	NaN	36
alpha-Chlordane			0.800	0.863		ug/L		108	45 - 140	NaN	35
alpha-Chlordane			0.800	0.967		ug/L		121	45 - 140	NaN	35
beta-BHC			0.800	0.897		ug/L		112	17 - 147	NaN	44
beta-BHC			0.800	0.909		ug/L		114	17 - 147	NaN	44
delta-BHC			0.800	1.04		ug/L		130	19 - 140	NaN	52
delta-BHC			0.800	1.02		ug/L		128	19 - 140	NaN	52
Dieldrin			0.800	0.914		ug/L		114	36 - 146	NaN	49
Dieldrin			0.800	0.924		ug/L		116	36 - 146	NaN	49
Endosulfan I			0.800	0.948		ug/L		119	45 - 153	NaN	28
Endosulfan I			0.800	0.993		ug/L		124	45 - 153	NaN	28
Endosulfan II			0.800	0.925		ug/L		116	0.1 - 202	NaN	53
Endosulfan II			0.800	0.918		ug/L		115	0.1 - 202	NaN	53
Endosulfan sulfate			0.800	0.955		ug/L		119	26 - 144	NaN	38
Endosulfan sulfate			0.800	1.15		ug/L		144	26 - 144	NaN	38
Endrin			0.800	0.939		ug/L		117	30 - 147	NaN	48
Endrin			0.800	0.925		ug/L		116	30 - 147	NaN	48
Endrin aldehyde			0.800	0.902		ug/L		113	60 - 150	NaN	40
Endrin aldehyde			0.800	0.865		ug/L		108	60 - 150	NaN	40
Endrin ketone			0.800	1.40	*	ug/L		175	17 - 150	NaN	40
Endrin ketone			0.800	0.916		ug/L		114	17 - 150	NaN	40
gamma-BHC (Lindane)			0.800	0.995		ug/L		124	32 - 140	NaN	39
gamma-BHC (Lindane)			0.800	0.945		ug/L		118	32 - 140	NaN	39
gamma-Chlordane			0.800	0.915		ug/L		114	45 - 140	NaN	35
gamma-Chlordane			0.800	0.953		ug/L		119	45 - 140	NaN	35
Heptachlor			0.800	0.822		ug/L		103	34 - 140	NaN	43
Heptachlor			0.800	0.853		ug/L		107	34 - 140	NaN	43
Heptachlor epoxide			0.800	0.929		ug/L		116	37 - 142	NaN	26
Heptachlor epoxide			0.800	0.939		ug/L		117	37 - 142	NaN	26
Methoxychlor			0.800	0.792		ug/L		99	64 - 150	NaN	40
Methoxychlor			0.800	0.779		ug/L		97	64 - 150	NaN	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*10 - 150*
DCB Decachlorobiphenyl	*92*		*10 - 150*
Tetrachloro-m-xylene	*89*		*10 - 150*
Tetrachloro-m-xylene	*90*		*10 - 150*

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-555747/1-A
Matrix: Water
Analysis Batch: 555955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		200	180	ug/L		10/26/20 10:20	10/27/20 07:30	1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 480-555747/2-A
Matrix: Water
Analysis Batch: 555955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2500	2400		ug/L		96	90 - 110

Lab Sample ID: 460-221020-Q-1-B MS
Matrix: Water
Analysis Batch: 555955

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 555747

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	990		1000	2070		ug/L		108	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 460-733610/14
Matrix: Water
Analysis Batch: 733610

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		100	16	ug/L			10/21/20 16:25	1
Nitrate Nitrite as N	ND		100	22	ug/L			10/21/20 16:25	1
Nitrite as N	ND		100	10	ug/L			10/21/20 16:25	1

Lab Sample ID: LCSSRM 460-733610/16
Matrix: Water
Analysis Batch: 733610

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	720	707		ug/L		98.2	77.8 - 120.8

Lab Sample ID: MB 460-733675/14
Matrix: Water
Analysis Batch: 733675

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		100	16	ug/L			10/21/20 19:50	1
Nitrate Nitrite as N	ND		100	22	ug/L			10/21/20 19:50	1
Nitrite as N	ND		100	10	ug/L			10/21/20 19:50	1

Lab Sample ID: 460-221019-N-1 MS
Matrix: Water
Analysis Batch: 733675

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	38	J F1	500	419	F1	ug/L		76	85 - 115
Nitrate Nitrite as N	76	J F1	1000	861	F1	ug/L		78	85 - 115
Nitrite as N	38	J	500	442		ug/L		81	79 - 121

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 460-221019-N-1 MSD
Matrix: Water
Analysis Batch: 733675

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	38	J F1	500	417	F1	ug/L		76	85 - 115	0	18
Nitrate Nitrite as N	76	J F1	1000	857	F1	ug/L		78	85 - 115	0	10
Nitrite as N	38	J	500	440		ug/L		81	79 - 121	0	10

Lab Sample ID: 460-221019-N-15 MS
Matrix: Water
Analysis Batch: 733675

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	290	F1	500	576	F1	ug/L		58	85 - 115
Nitrate Nitrite as N	330	F1	1000	1170	F1	ug/L		84	85 - 115
Nitrite as N	45	J	500	594		ug/L		110	79 - 121

Lab Sample ID: 460-221019-N-15 MSD
Matrix: Water
Analysis Batch: 733675

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	290	F1	500	585	F1	ug/L		60	85 - 115	2	18
Nitrate Nitrite as N	330	F1	1000	1180		ug/L		85	85 - 115	1	10
Nitrite as N	45	J	500	595		ug/L		110	79 - 121	0	10

Method: 410.4 - COD

Lab Sample ID: MB 460-734246/31
Matrix: Water
Analysis Batch: 734246

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10000	3300	ug/L			10/23/20 14:23	1

Lab Sample ID: LCSSRM 460-734246/32
Matrix: Water
Analysis Batch: 734246

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	117000	114000		ug/L		97.3	77.2 - 118.8

Lab Sample ID: 460-220651-A-2 MS
Matrix: Water
Analysis Batch: 734246

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	4500	J	50000	56300		ug/L		104	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: 460-220651-A-2 MSD
Matrix: Water
Analysis Batch: 734246

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	4500	J	50000	58000		ug/L		107	90 - 110	3	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 460-733854/25
Matrix: Water
Analysis Batch: 733854

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5000	5000	ug/L			10/21/20 15:10	1

Lab Sample ID: LCSSRM 460-733854/26
Matrix: Water
Analysis Batch: 733854

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	66800	65000		ug/L		97.3	85.0 - 115.0

Lab Sample ID: 460-220998-E-1 DU
Matrix: Water
Analysis Batch: 733854

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	620000		623000		ug/L		0.2	10

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 460-734493/1
Matrix: Water
Analysis Batch: 734493

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		5000	5000	ug/L			10/24/20 14:04	1

Lab Sample ID: MB 460-734493/24
Matrix: Water
Analysis Batch: 734493

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		5000	5000	ug/L			10/24/20 14:04	1

Lab Sample ID: LCSSRM 460-734493/2
Matrix: Water
Analysis Batch: 734493

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	370000	380000		ug/L		102.7	85.1 - 115.1

Method: SM 2340C - Hardness, Total (mg/l as CaC03) (Continued)

Lab Sample ID: LCSSRM 460-734493/25
Matrix: Water
Analysis Batch: 734493

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Hardness as calcium carbonate			370000	380000		ug/L		102.7	85.1 - 115.1		

Lab Sample ID: 460-221028-T-1 DU
Matrix: Water
Analysis Batch: 734493

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Hardness as calcium carbonate	580000			580000		ug/L				0	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 460-733599/34
Matrix: Water
Analysis Batch: 733599

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

Analyte	MB Result	MB Qualifier	RL		RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0		1.0	umhos/cm			10/21/20 14:30	1

Lab Sample ID: LCSSRM 460-733599/35
Matrix: Water
Analysis Batch: 733599

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Specific Conductance			691	712		umhos/cm		103.1	90.0 - 110.1		

Lab Sample ID: 460-220641-F-1 DU
Matrix: Water
Analysis Batch: 733599

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	1800			1770		umhos/cm				0.3	2

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 460-734683/4-A
Matrix: Water
Analysis Batch: 734690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	ND		30	23	ug/L		10/25/20 11:30	10/25/20 14:00	1

Lab Sample ID: LCSSRM 460-734683/5-A
Matrix: Water
Analysis Batch: 734690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734683

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Phosphorus as P			197	193		ug/L		98.3	82.4 - 116.5		

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: MRL 460-734683/3-A
Matrix: Water
Analysis Batch: 734690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734683

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Phosphorus as P			0.0300	0.0263	J	mg/L		88	50 - 150		

Lab Sample ID: 460-221020-R-1-B MS
Matrix: Water
Analysis Batch: 734690

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 734683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phosphorus as P	37		200	239		ug/L		101	90 - 110		

Lab Sample ID: 460-221020-R-1-C MSD
Matrix: Water
Analysis Batch: 734690

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 734683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus as P	37		200	238		ug/L		100	90 - 110	1	10

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 460-733493/1
Matrix: Water
Analysis Batch: 733493

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		1000	1000	ug/L			10/21/20 08:00	1

Lab Sample ID: LCS 460-733493/2
Matrix: Water
Analysis Batch: 733493

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Biochemical Oxygen Demand			129000	127000		ug/L		98	84.6 - 115.4		

Lab Sample ID: 460-221009-B-2 DU
Matrix: Water
Analysis Batch: 733493

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	44000			47900		ug/L				8	30

GC VOA

Analysis Batch: 555871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	RSK-175	
MB 480-555871/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-555871/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-555871/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

GC Semi VOA

Analysis Batch: 733527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	608.3	733553
MB 460-733553/1-A	Method Blank	Total/NA	Water	608.3	733553
LCS 460-733553/2-A	Lab Control Sample	Total/NA	Water	608.3	733553
LCSD 460-733553/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	733553

Prep Batch: 733553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	608	
MB 460-733553/1-A	Method Blank	Total/NA	Water	608	
LCS 460-733553/2-A	Lab Control Sample	Total/NA	Water	608	
LCSD 460-733553/3-A	Lab Control Sample Dup	Total/NA	Water	608	

General Chemistry

Prep Batch: 555747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	351.2	
MB 480-555747/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-555747/2-A	Lab Control Sample	Total/NA	Water	351.2	
460-221020-Q-1-B MS	Matrix Spike	Total/NA	Water	351.2	

Analysis Batch: 555955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	351.2	555747
MB 480-555747/1-A	Method Blank	Total/NA	Water	351.2	555747
LCS 480-555747/2-A	Lab Control Sample	Total/NA	Water	351.2	555747
460-221020-Q-1-B MS	Matrix Spike	Total/NA	Water	351.2	555747

Analysis Batch: 732766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	203	

Analysis Batch: 733493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	SM 5210B	
USB 460-733493/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 460-733493/2	Lab Control Sample	Total/NA	Water	SM 5210B	
460-221009-B-2 DU	Duplicate	Total/NA	Water	SM 5210B	

Analysis Batch: 733599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	SM 2510B	
MB 460-733599/34	Method Blank	Total/NA	Water	SM 2510B	

General Chemistry (Continued)

Analysis Batch: 733599 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 460-733599/35	Lab Control Sample	Total/NA	Water	SM 2510B	
460-220641-F-1 DU	Duplicate	Total/NA	Water	SM 2510B	

Analysis Batch: 733610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	353.2	
MB 460-733610/14	Method Blank	Total/NA	Water	353.2	
LCSSRM 460-733610/16	Lab Control Sample	Total/NA	Water	353.2	
MRL 460-733610/11	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 733675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-733675/14	Method Blank	Total/NA	Water	353.2	
MRL 460-733675/11	Lab Control Sample	Total/NA	Water	353.2	
460-221019-N-1 MS	Matrix Spike	Total/NA	Water	353.2	
460-221019-N-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
460-221019-N-15 MS	Matrix Spike	Total/NA	Water	353.2	
460-221019-N-15 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 733854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	SM 2320B	
MB 460-733854/25	Method Blank	Total/NA	Water	SM 2320B	
LCSSRM 460-733854/26	Lab Control Sample	Total/NA	Water	SM 2320B	
460-220998-E-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 734246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	410.4	
MB 460-734246/31	Method Blank	Total/NA	Water	410.4	
LCSSRM 460-734246/32	Lab Control Sample	Total/NA	Water	410.4	
460-220651-A-2 MS	Matrix Spike	Total/NA	Water	410.4	
460-220651-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Analysis Batch: 734493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	SM 2340C	
MB 460-734493/1	Method Blank	Total/NA	Water	SM 2340C	
MB 460-734493/24	Method Blank	Total/NA	Water	SM 2340C	
LCSSRM 460-734493/2	Lab Control Sample	Total/NA	Water	SM 2340C	
LCSSRM 460-734493/25	Lab Control Sample	Total/NA	Water	SM 2340C	
460-221028-T-1 DU	Duplicate	Total/NA	Water	SM 2340C	

Prep Batch: 734683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	SM 4500 P B	
MB 460-734683/4-A	Method Blank	Total/NA	Water	SM 4500 P B	
LCSSRM 460-734683/5-A	Lab Control Sample	Total/NA	Water	SM 4500 P B	
MRL 460-734683/3-A	Lab Control Sample	Total/NA	Water	SM 4500 P B	
460-221020-R-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 P B	
460-221020-R-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 P B	

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221026-2
Project/Site: EMGPRP-31097

General Chemistry

Analysis Batch: 734690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	SM 4500 P E	734683
MB 460-734683/4-A	Method Blank	Total/NA	Water	SM 4500 P E	734683
LCSSRM 460-734683/5-A	Lab Control Sample	Total/NA	Water	SM 4500 P E	734683
MRL 460-734683/3-A	Lab Control Sample	Total/NA	Water	SM 4500 P E	734683
460-221020-R-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 P E	734683
460-221020-R-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 P E	734683

Field Service / Mobile Lab

Analysis Batch: 733499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	SM4500 H+	

Analysis Batch: 734851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221026-1	ORS-EFFLUENT	Total/NA	Water	2550B	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221026-2

Client Sample ID: ORS-EFFLUENT

Date Collected: 10/20/20 09:50
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221026-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	555871	10/27/20 10:23	MAN	TAL BUF
Total/NA	Prep	608			733553	10/21/20 14:44	ATF	TAL EDI
Total/NA	Analysis	608.3		1	733527	10/22/20 08:52	SAK	TAL EDI
Total/NA	Analysis	203		1	732766	10/26/20 15:30	TJW	TAL EDI
Total/NA	Prep	351.2			555747	10/26/20 10:20	KEB	TAL BUF
Total/NA	Analysis	351.2		1	555955	10/27/20 09:41	CLT	TAL BUF
Total/NA	Analysis	353.2		1	733610	10/21/20 16:39	VBG	TAL EDI
Total/NA	Analysis	410.4		1	734246	10/23/20 14:23	HTV	TAL EDI
Total/NA	Analysis	SM 2320B		1	733854	10/21/20 17:54	RPR	TAL EDI
Total/NA	Analysis	SM 2340C		1	734493	10/24/20 14:04	HTV	TAL EDI
Total/NA	Analysis	SM 2510B		1	733599	10/21/20 14:30	HTV	TAL EDI
Total/NA	Prep	SM 4500 P B			734683	10/25/20 11:30	HTV	TAL EDI
Total/NA	Analysis	SM 4500 P E		1	734690	10/25/20 14:00	HTV	TAL EDI
Total/NA	Analysis	SM 5210B		1	733493	10/21/20 09:51	PLS	TAL EDI
Total/NA	Analysis	2550B		1	734851	10/20/20 09:49	JMP	TAL EDI
Total/NA	Analysis	SM4500 H+		1	733499	10/20/20 09:50	AXR	TAL EDI

Laboratory References:

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

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221026-2
Project/Site: EMGPRP-31097

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

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
203		Water	Langelier Index
2550B		Water	Temperature
608.3	608	Water	alpha-Chlordane
608.3	608	Water	Endrin ketone
608.3	608	Water	gamma-Chlordane
SM4500 H+		Water	Field pH

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221026-2
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
608.3	Organochlorine Pesticides/PCBs in Water	40CFR136A	TAL EDI
203	Langelier Index	SM15	TAL EDI
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL EDI
410.4	COD	MCAWW	TAL EDI
SM 2320B	Alkalinity	SM	TAL EDI
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL EDI
SM 2510B	Conductivity, Specific Conductance	SM	TAL EDI
SM 4500 P E	Phosphorus	SM	TAL EDI
SM 5210B	BOD, 5-Day	SM	TAL EDI
2550B	Temperature (Field)	SM	TAL EDI
SM4500 H+	pH, Field	SM	TAL EDI
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL EDI
SM 4500 P B	Phosphorous, Total and Ortho	SM	TAL EDI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SM = "Standard Methods For The Examination Of Water And Wastewater"

SM15 = "Standard Methods For The Examination Of Water And Wastewater", 15th Edition, 1981.

Laboratory References:

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

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221026-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-221026-1	ORS-EFFLUENT	Water	10/20/20 09:50	10/20/20 18:00	

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: TG	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-130510-84480.1
Client Contact: Matthew Mueller	Phone:	E-Mail: Melissa.Haas@Eurofinset.com		Page: Page 1 of 1
Company: Roux Environmental Eng & Geology DPC				Job #:
Address: 209 Shafter St	Due Date Requested:			
City: Islandia	TAT Requested (days): 5 Day (See comments)			
State, Zip: NY, 11749				
Phone: 716-472-2725(Tel)	PO #: 0172.0030Y060			
Email: mmueller@rouxinc.com	WO #:			
Project Name: EMGPRP-31097	Project #: 46032869			
Analysis Group: Annual Performance Sampling	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Volatile Organic Compounds Method:624.1_PREC	Volatile Organic Compounds (MEK, MTBE, Acetone) Method: 8260C	GRO Method: 8015D_GRO	ORO/DRO Method: 8015D-DRO	Semivolatile Organic Compounds Method: 625.1_PREC	Metals (TAL) Method: 200.8	Mercury Method: 245.1	Langalier Index Method: 203	Anions, Ion Chromatography Method: 300_ORGFM_28D	Nitrogen, Total Kjeldahl Method: 351.2	Nitrogen, Nitrate-Nitrite Method: 353.2	Phosphorus Method: 4500_P_E	Phenolics, Total Recoverable Method: 420.1	HEM and SGT-HEM Method: 1664A_NP	pH Method: SM4500_H+	COD Method: 410.3	Turbidity, Nephelometric Method: 180.1	Alkalinity Method: 2320B	Hardness, Total (mg/l as CaC03) Method: 2340C	Conductivity, Specific Conductance Method: 2510B	Solids, Total Dissolved (TDS) Method: 2540C	Solids, Total Suspended (TSS) Method: 2540D	Solids, Settleable Method: SM2540F	BOD, 5-Day Method: 5210B	Dissolved Gases (GC) (Methane, Ethane, Ethene) Method: RSK_175	Organochlorine Pesticides in Water Method: 608.3_PREC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	N	N	D	D	N	N	S	N	S	S	A	N	S	N	N	N	N	N	N	N	N	A	N		
ORS-EFFLUENT	10/20/20	9:50	G	W	N	N	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	28	Methods 203, 351.2, 353.2, 4500_P_E, 410.3, 2320B, 2340C, 2510B, 5210B, RSK_175, 608.3_PREC to be reported separately (10 Day TAT) Field Temp: 16.76°C Field pH: 7.86
QAQC_TB	10/9/20	N/A	N/A	W			X	X																										Trip Blank 2

460-221026 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

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

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

Deliverable Requested: I, II, III, IV, Other (specify): Level 2, EDD (EQuIS and Excel)

Special Instructions/QC Requirements: **NOTE SHORT HOLDS**

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Natalie S.	10/20/2020 16:00	Roux	Samuel	10/20/2020 1600	TA
Samuel	10/20/20 1800		Remmm	10/20/20 1800	TA Edi
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 007300	Cooler Temperature(s) °C and Other Remarks: 0.7°C/R#1

0.7 IR 1

Ver: 01/16/2019

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 221026

Number of Coolers: 1 **IR Gun #** 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.8 °C	°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1		<2		<2	<2			<2		<2			<2		

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: [illegible] **Date:** 10 20 20

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-59789.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Melissa.Haas@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-221026-2
Address: 10 Hazelwood Drive, ,	Due Date Requested: 10/30/2020			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: EMGPRP-31097	Project #: 46032869			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	351.2/351.2_Prep Nitrogen, Total Kjeldahl	RSK_175/ Methane, Ethane, Ethene	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
ORS-EFFLUENT (460-221026-1)	10/20/20	09:50 Eastern		Water			X	X	4	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/21/20 1900	ESE	[signature]	10/22/20 1638	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.6 #1 ICE

Ver: 01/16/2019

10/29/2020

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-221026-2

Login Number: 221026
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-221026-2

Login Number: 221026
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo
List Creation: 10/23/20 09:42 AM

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	3.6 ir gun #1 ice
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.	True	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-221020-1
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

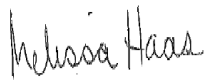
Attn: Matthew Mueller

Melissa Haas

Authorized for release by:
10/27/2020 3:50:50 PM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/27/2020 3:50:50 PM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-221020-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: EMGPRP-31097

Report Number: 460-221020-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/20/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.9 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions

Per laboratory policy the Trip Blank sample date/time was changed to reflect the latest sample date/time of the sampling event. QAQC_TB (460-221020-2)

Field temperature/pH data was provided by the client.

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Samples ORS-INFLUENT (460-221020-1) and QAQC_TB (460-221020-2) were analyzed for Volatile Organic Compounds by GC/MS in accordance with EPA Method 624.1. The samples were analyzed on 10/22/2020 and 10/23/2020.

The continuing calibration verification (CCV) analyzed in batch 460-733802 was outside the method criteria for the following analyte(s): Methyl iodide. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-733802 recovered outside control limits for the following analyte: Methyl iodide. This analyte was biased low in the LCS/LCSD and was not detected in the associated samples.

The continuing calibration verification (CCV) associated with batch 460-734016 recovered above the upper control limit for 1,2,3-Trichlorobenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been

Job ID: 460-221020-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

reported.

The continuing calibration verification (CCV) associated with batch 460-734016 recovered outside acceptance criteria, low biased, for Methyl iodide. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The laboratory control sample (LCS) for analytical batch 460-734016 recovered outside control limits for the following analyte: Methyl iodide (biased low). This analyte was not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples ORS-INFLUENT (460-221020-1) and QAQC_TB (460-221020-2) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 10/22/2020.

No difficulties were encountered during the Volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample ORS-INFLUENT (460-221020-1) was analyzed for Semivolatile Organic Compounds (GC/MS) in accordance with 625.1. The samples were prepared on 10/22/2020 and analyzed on 10/23/2020.

The continuing calibration verification (CCV) associated with batch 460-733989 recovered above the upper control limit for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol and Benzoic acid. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits due to poor performance. The LCS/LCSD associated with batch 460-733828 had (Aniline and Benzyl alcohol) outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The laboratory control sample (LCS) for preparation batch 460-733828 and analytical batch 460-733989 recovered outside control limits for the following analytes: Benzoic acid. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the Semivolatile Organic Compounds (GC/MS) analysis.

All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS

Sample ORS-INFLUENT (460-221020-1) was analyzed for gasoline range organics in accordance with EPA SW-846 Method 8015D - GRO. The samples were analyzed on 10/22/2020.

The following sample was diluted to bring the concentration of target analytes within the calibration range: ORS-INFLUENT (460-221020-1). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the GRO analysis.

All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS

Sample ORS-INFLUENT (460-221020-1) was analyzed for diesel range organics in accordance with EPA SW-846 Method 8015D - DRO.

Job ID: 460-221020-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

The samples were prepared on 10/21/2020 and analyzed on 10/22/2020.

No difficulties were encountered during the DRO analysis.

All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS
Sample ORS-INFLUENT (460-221020-1) was analyzed for total recoverable metals in accordance with EPA Method 200.8 (ICP/MS). The samples were prepared on 10/23/2020 and analyzed on 10/23/2020 and 10/26/2020.

Lead was detected in method blank MB 460-734126/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MS of sample 460-221019-3 in batch 460-734901.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Nickel exceeded the RPD limit for the duplicate of sample 460-221019-19. Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY
Sample ORS-INFLUENT (460-221020-1) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared and analyzed on 10/22/2020.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

SILICA GEL TREATED (SGT/PETROLEUM HYDROCARBON) AND N-HEXANE EXTRACTABLE MATERIAL (HEM/OIL&GREASE)
Sample ORS-INFLUENT (460-221020-1) was analyzed for Silica Gel Treated (SGT/Petroleum Hydrocarbon) and N-Hexane Extractable Material (HEM/Oil&Grease) in accordance with EPA SW-846 Method 1664A. The samples were analyzed on 10/23/2020.

Analysis for Hexane Extractable Material (HEM) was performed for the following samples: ORS-INFLUENT (460-221020-1) and (460-221019-AF-1). Since the HEM result(s) was below the reporting limit (RL), the result(s) for Silica Gel Treated - Hexane Extractable Material (SGT-HEM) was reported as a non-detect. All HEM quality control criteria were met.

No difficulties were encountered during the SGT-HEM/HEM analysis.

All quality control parameters were within the acceptance limits.

TURBIDITY
Sample ORS-INFLUENT (460-221020-1) was analyzed for turbidity in accordance with EPA Method 180.1 - Nephelometric. The samples were analyzed on 10/21/2020.

Sample ORS-INFLUENT (460-221020-1)[2X] required dilution prior to analysis. The sample was free of suspended particles but was yellow in color.The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the turbidity analysis.

All other quality control parameters were within the acceptance limits.

Job ID: 460-221020-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

TOTAL DISSOLVED SOLIDS
Sample ORS-INFLUENT (460-221020-1) was analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 10/23/2020.

Total Dissolved Solids exceeded the RPD limit for the duplicate of sample 460-221019-19. Refer to the QC report for details.

No other difficulties were encountered during the TDS analysis.

All other quality control parameters were within the acceptance limits.

TOTAL SUSPENDED SOLIDS
Sample ORS-INFLUENT (460-221020-1) was analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 10/23/2020.

No difficulties were encountered during the TSS analysis.

All quality control parameters were within the acceptance limits.

ANIONS
Sample ORS-INFLUENT (460-221020-1) was analyzed for anions in accordance with EPA Method 300_ORGFM_28D Anions by Ion Chromatograph. The samples were analyzed on 10/26/2020.

The following sample was diluted to bring the concentration of target analytes within the calibration range: ORS-INFLUENT (460-221020-1). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE PHENOLS
Sample ORS-INFLUENT (460-221020-1) was analyzed for total recoverable phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 10/26/2020.

No difficulties were encountered during the phenol analysis.

All quality control parameters were within the acceptance limits.

SETTLEABLE SOLIDS
Sample ORS-INFLUENT (460-221020-1) was analyzed for settleable solids in accordance with SM 2540F. The samples were analyzed on 10/21/2020.

No difficulties were encountered during the settleable solids analysis.

All quality control parameters were within the acceptance limits.

PH
Sample ORS-INFLUENT (460-221020-1) was analyzed for pH in accordance with SM 4500 H+. The samples were analyzed on 10/25/2020.

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221020-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 460-221020-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.57	J	1.0	0.26	ug/L	1		624.1	Total/NA
1,1-Dichloroethene	1.0		1.0	0.12	ug/L	1		624.1	Total/NA
1,2,4-Trimethylbenzene	15		1.0	0.37	ug/L	1		624.1	Total/NA
1,2-Dichloroethane	12		1.0	0.84	ug/L	1		624.1	Total/NA
1,2-Dichloroethene, Total	60		2.0	0.44	ug/L	1		624.1	Total/NA
1,3,5-Trimethylbenzene	6.0		1.0	0.33	ug/L	1		624.1	Total/NA
Benzene	300		1.0	0.43	ug/L	1		624.1	Total/NA
Chlorobenzene	0.78	J	1.0	0.38	ug/L	1		624.1	Total/NA
Chloroethane	0.90	J	1.0	0.32	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	58		1.0	0.22	ug/L	1		624.1	Total/NA
Cyclohexane	67		1.0	0.32	ug/L	1		624.1	Total/NA
Ethylbenzene	16		1.0	0.30	ug/L	1		624.1	Total/NA
Isopropylbenzene	7.8		1.0	0.16	ug/L	1		624.1	Total/NA
m-Xylene & p-Xylene	53		1.0	0.30	ug/L	1		624.1	Total/NA
n-Butylbenzene	0.81	J	1.0	0.32	ug/L	1		624.1	Total/NA
n-Hexane	7.2		1.0	0.69	ug/L	1		624.1	Total/NA
N-Propylbenzene	6.3		1.0	0.67	ug/L	1		624.1	Total/NA
o-Xylene	5.0		1.0	0.36	ug/L	1		624.1	Total/NA
p-Isopropyltoluene	0.51	J	1.0	0.37	ug/L	1		624.1	Total/NA
sec-Butylbenzene	1.1		1.0	0.37	ug/L	1		624.1	Total/NA
Tetrachloroethene	280		1.0	0.25	ug/L	1		624.1	Total/NA
Toluene	8.5		1.0	0.38	ug/L	1		624.1	Total/NA
trans-1,2-Dichloroethene	2.3		1.0	0.24	ug/L	1		624.1	Total/NA
Trichloroethene	130		1.0	0.31	ug/L	1		624.1	Total/NA
Vinyl chloride	9.7		1.0	0.34	ug/L	1		624.1	Total/NA
Xylenes, Total	58		2.0	0.65	ug/L	1		624.1	Total/NA
Methyl tert-butyl ether	29		1.0	0.22	ug/L	1		8260D	Total/NA
1-Methylnaphthalene	4.9		4.0	1.1	ug/L	1		625.1	Total/NA
2-Methylnaphthalene	3.7	J	10	1.1	ug/L	1		625.1	Total/NA
Naphthalene	7.8		2.0	1.1	ug/L	1		625.1	Total/NA
Phenol	1.8	J	10	1.2	ug/L	1		625.1	Total/NA
GRO	1300		130	130	ug/L	5		8015D	Total/NA
Diesel Range Organics (C10-C44)	0.37		0.13	0.039	mg/L	1		8015D	Total/NA
ORO (C28-C44)	0.13		0.10	0.029	mg/L	1		8015D	Total/NA
Chloride	630000		3200	390	ug/L	10		300.0	Total/NA
Sulfate	100000		4800	1600	ug/L	10		300.0	Total/NA
Arsenic	5.4		2.0	0.61	ug/L	1		200.8	Total Recoverable
Barium	250		4.0	1.0	ug/L	1		200.8	Total Recoverable
Calcium	140000		200	22	ug/L	1		200.8	Total Recoverable
Cobalt	1.7	J	4.0	0.19	ug/L	1		200.8	Total Recoverable
Copper	1.3	J	4.0	1.1	ug/L	1		200.8	Total Recoverable
Iron	5000		120	17	ug/L	1		200.8	Total Recoverable
Magnesium	47000		200	27	ug/L	1		200.8	Total Recoverable
Manganese	2300		8.0	0.75	ug/L	1		200.8	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: ORS-INFLUENT (Continued)
Lab Sample ID: 460-221020-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	3.7	J	4.0	0.84	ug/L	1		200.8	Total Recoverable
Potassium	6700		200	84	ug/L	1		200.8	Total Recoverable
Selenium	1.7	J	2.5	0.39	ug/L	1		200.8	Total Recoverable
Sodium	360000		200	20	ug/L	1		200.8	Total Recoverable
Zinc	2.8	J	16	2.6	ug/L	1		200.8	Total Recoverable
Turbidity	63	B	1.0	0.23	NTU	2		180.1	Total/NA
Total Dissolved Solids	1700000		50000	50000	ug/L	1		SM 2540C	Total/NA
Total Suspended Solids	12000		6300	6300	ug/L	1		SM 2540D	Total/NA
pH	8.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	21.1	HF	0.1	0.1	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: QAQC_TB
Lab Sample ID: 460-221020-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Propanol	50		10	5.9	ug/L	1		624.1	Total/NA
Methylene Chloride	0.35	J	1.0	0.32	ug/L	1		624.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-1

Client Sample ID: ORS-INFLUENT
Date Collected: 10/20/20 09:30
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221020-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/22/20 15:58	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/22/20 15:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/22/20 15:58	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/22/20 15:58	1
1,1-Dichloroethane	**0.57**	**J**	1.0	0.26	ug/L			10/22/20 15:58	1
1,1-Dichloroethene	**1.0**		1.0	0.12	ug/L			10/22/20 15:58	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/22/20 15:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/22/20 15:58	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/22/20 15:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/22/20 15:58	1
1,2,4-Trimethylbenzene	**15**		1.0	0.37	ug/L			10/22/20 15:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/22/20 15:58	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/22/20 15:58	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/22/20 15:58	1
1,2-Dichloroethane	**12**		1.0	0.84	ug/L			10/22/20 15:58	1
1,2-Dichloroethene, Total	**60**		2.0	0.44	ug/L			10/22/20 15:58	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/22/20 15:58	1
1,3,5-Trimethylbenzene	**6.0**		1.0	0.33	ug/L			10/22/20 15:58	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/22/20 15:58	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/20 15:58	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/22/20 15:58	1
1,4-Dioxane	ND		50	28	ug/L			10/22/20 15:58	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/22/20 15:58	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/22/20 15:58	1
2-Hexanone	ND		5.0	2.9	ug/L			10/22/20 15:58	1
2-Propanol	ND		10	5.9	ug/L			10/22/20 15:58	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/22/20 15:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/22/20 15:58	1
Acetonitrile	ND		10	5.0	ug/L			10/22/20 15:58	1
Benzene	**300**		1.0	0.43	ug/L			10/22/20 15:58	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/22/20 15:58	1
Bromobenzene	ND		1.0	0.35	ug/L			10/22/20 15:58	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/22/20 15:58	1
Bromoform	ND		1.0	0.54	ug/L			10/22/20 15:58	1
Bromomethane	ND		1.0	0.45	ug/L			10/22/20 15:58	1
Butyl acetate	ND		2.0	0.33	ug/L			10/22/20 15:58	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/22/20 15:58	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/22/20 15:58	1
Chlorobenzene	**0.78**	**J**	1.0	0.38	ug/L			10/22/20 15:58	1
Chloroethane	**0.90**	**J**	1.0	0.32	ug/L			10/22/20 15:58	1
Chloroform	ND		1.0	0.33	ug/L			10/22/20 15:58	1
Chloromethane	ND		1.0	0.43	ug/L			10/22/20 15:58	1
cis-1,2-Dichloroethene	**58**		1.0	0.22	ug/L			10/22/20 15:58	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/22/20 15:58	1
Cyclohexane	**67**		1.0	0.32	ug/L			10/22/20 15:58	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/22/20 15:58	1
Dibromomethane	ND		1.0	0.60	ug/L			10/22/20 15:58	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/22/20 15:58	1
Diisopropyl ether	ND		1.0	0.45	ug/L			10/22/20 15:58	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-1

Client Sample ID: ORS-INFLUENT
Date Collected: 10/20/20 09:30
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221020-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl acetate	ND		2.0	0.73	ug/L			10/22/20 15:58	1
Ethylbenzene	**16**		1.0	0.30	ug/L			10/22/20 15:58	1
Freon 113	ND		1.0	0.31	ug/L			10/22/20 15:58	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/22/20 15:58	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/22/20 15:58	1
Isopropylbenzene	**7.8**		1.0	0.16	ug/L			10/22/20 15:58	1
Methyl iodide	ND	*	1.0	0.48	ug/L			10/22/20 15:58	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/22/20 15:58	1
Methylene Chloride	ND		1.0	0.32	ug/L			10/22/20 15:58	1
m-Xylene & p-Xylene	**53**		1.0	0.30	ug/L			10/22/20 15:58	1
n-Butylbenzene	**0.81**	**J**	1.0	0.32	ug/L			10/22/20 15:58	1
n-Heptane	ND		5.0	0.47	ug/L			10/22/20 15:58	1
n-Hexane	**7.2**		1.0	0.69	ug/L			10/22/20 15:58	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/22/20 15:58	1
N-Propylbenzene	**6.3**		1.0	0.67	ug/L			10/22/20 15:58	1
o-Xylene	**5.0**		1.0	0.36	ug/L			10/22/20 15:58	1
p-Isopropyltoluene	**0.51**	**J**	1.0	0.37	ug/L			10/22/20 15:58	1
sec-Butylbenzene	**1.1**		1.0	0.37	ug/L			10/22/20 15:58	1
Styrene	ND		1.0	0.42	ug/L			10/22/20 15:58	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/22/20 15:58	1
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/22/20 15:58	1
Tetrachloroethene	**280**		1.0	0.25	ug/L			10/22/20 15:58	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/22/20 15:58	1
Toluene	**8.5**		1.0	0.38	ug/L			10/22/20 15:58	1
trans-1,2-Dichloroethene	**2.3**		1.0	0.24	ug/L			10/22/20 15:58	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/22/20 15:58	1
Trichloroethene	**130**		1.0	0.31	ug/L			10/22/20 15:58	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/22/20 15:58	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/22/20 15:58	1
Vinyl chloride	**9.7**		1.0	0.34	ug/L			10/22/20 15:58	1
Xylenes, Total	**58**		2.0	0.65	ug/L			10/22/20 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*10/22/20 15:58*	*1*
Bromofluorobenzene	*106*		*60 - 140*		*10/22/20 15:58*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*10/22/20 15:58*	*1*
Toluene-d8 (Surr)	*105*		*60 - 140*		*10/22/20 15:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/22/20 17:18	1
Acetone	ND		5.0	4.4	ug/L			10/22/20 17:18	1
Methyl tert-butyl ether	**29**		1.0	0.22	ug/L			10/22/20 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 123*		*10/22/20 17:18*	*1*
4-Bromofluorobenzene	*98*		*76 - 120*		*10/22/20 17:18*	*1*
Dibromofluoromethane (Surr)	*87*		*77 - 124*		*10/22/20 17:18*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/22/20 17:18*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-1

Client Sample ID: ORS-INFLUENT

Date Collected: 10/20/20 09:30
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221020-1

Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10	1.2	ug/L		10/22/20 09:55	10/23/20 03:20	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.2	ug/L		10/22/20 09:55	10/23/20 03:20	1
1,2,4-Trichlorobenzene	ND		2.0	1.3	ug/L		10/22/20 09:55	10/23/20 03:20	1
1,2-Dichlorobenzene	ND		10	0.60	ug/L		10/22/20 09:55	10/23/20 03:20	1
1,2-Diphenylhydrazine	ND		10	0.37	ug/L		10/22/20 09:55	10/23/20 03:20	1
1,3-Dichlorobenzene	ND		10	2.0	ug/L		10/22/20 09:55	10/23/20 03:20	1
1,4-Dichlorobenzene	ND		10	0.52	ug/L		10/22/20 09:55	10/23/20 03:20	1
1,4-Dioxane	ND		10	1.6	ug/L		10/22/20 09:55	10/23/20 03:20	1
1-Methylnaphthalene	**4.9**		4.0	1.1	ug/L		10/22/20 09:55	10/23/20 03:20	1
2,2'-oxybis[1-chloropropane]	ND		10	0.63	ug/L		10/22/20 09:55	10/23/20 03:20	1
2,3,4,6-Tetrachlorophenol	ND		10	0.75	ug/L		10/22/20 09:55	10/23/20 03:20	1
2,4,5-Trichlorophenol	ND		10	0.85	ug/L		10/22/20 09:55	10/23/20 03:20	1
2,4,6-Trichlorophenol	ND		10	0.70	ug/L		10/22/20 09:55	10/23/20 03:20	1
2,4-Dichlorophenol	ND		10	1.2	ug/L		10/22/20 09:55	10/23/20 03:20	1
2,4-Dimethylphenol	ND		10	0.66	ug/L		10/22/20 09:55	10/23/20 03:20	1
2,4-Dinitrophenol	ND		20	2.0	ug/L		10/22/20 09:55	10/23/20 03:20	1
2,4-Dinitrotoluene	ND		2.0	1.0	ug/L		10/22/20 09:55	10/23/20 03:20	1
2,6-Dinitrotoluene	ND		2.0	1.4	ug/L		10/22/20 09:55	10/23/20 03:20	1
2-Chloronaphthalene	ND		10	1.2	ug/L		10/22/20 09:55	10/23/20 03:20	1
2-Chlorophenol	ND		10	0.38	ug/L		10/22/20 09:55	10/23/20 03:20	1
2-Methylnaphthalene	**3.7**	**J**	10	1.1	ug/L		10/22/20 09:55	10/23/20 03:20	1
2-Methylphenol	ND		10	0.67	ug/L		10/22/20 09:55	10/23/20 03:20	1
2-Nitroaniline	ND		10	0.47	ug/L		10/22/20 09:55	10/23/20 03:20	1
2-Nitrophenol	ND		10	1.9	ug/L		10/22/20 09:55	10/23/20 03:20	1
3,3'-Dichlorobenzidine	ND		10	3.3	ug/L		10/22/20 09:55	10/23/20 03:20	1
3-Nitroaniline	ND		10	2.5	ug/L		10/22/20 09:55	10/23/20 03:20	1
4,6-Dinitro-2-methylphenol	ND		20	3.4	ug/L		10/22/20 09:55	10/23/20 03:20	1
4-Bromophenyl phenyl ether	ND		10	0.75	ug/L		10/22/20 09:55	10/23/20 03:20	1
4-Chloro-3-methylphenol	ND		10	1.2	ug/L		10/22/20 09:55	10/23/20 03:20	1
4-Chloroaniline	ND		10	1.9	ug/L		10/22/20 09:55	10/23/20 03:20	1
4-Chlorophenyl phenyl ether	ND		10	1.3	ug/L		10/22/20 09:55	10/23/20 03:20	1
4-Methylphenol	ND		10	0.76	ug/L		10/22/20 09:55	10/23/20 03:20	1
4-Nitroaniline	ND		10	1.3	ug/L		10/22/20 09:55	10/23/20 03:20	1
4-Nitrophenol	ND		20	1.7	ug/L		10/22/20 09:55	10/23/20 03:20	1
Acenaphthene	ND		10	1.1	ug/L		10/22/20 09:55	10/23/20 03:20	1
Acenaphthylene	ND		10	0.82	ug/L		10/22/20 09:55	10/23/20 03:20	1
Acetophenone	ND		10	2.5	ug/L		10/22/20 09:55	10/23/20 03:20	1
Aniline	ND	*	10	1.1	ug/L		10/22/20 09:55	10/23/20 03:20	1
Anthracene	ND		10	1.3	ug/L		10/22/20 09:55	10/23/20 03:20	1
Benzidine	ND		10	0.70	ug/L		10/22/20 09:55	10/23/20 03:20	1
Benzo[a]anthracene	ND		1.0	0.59	ug/L		10/22/20 09:55	10/23/20 03:20	1
Benzo[a]pyrene	ND		1.0	0.68	ug/L		10/22/20 09:55	10/23/20 03:20	1
Benzo[b]fluoranthene	ND		2.0	1.4	ug/L		10/22/20 09:55	10/23/20 03:20	1
Benzo[g,h,i]perylene	ND		10	1.3	ug/L		10/22/20 09:55	10/23/20 03:20	1
Benzo[k]fluoranthene	ND		1.0	0.67	ug/L		10/22/20 09:55	10/23/20 03:20	1
Benzoic acid	ND	*	50	9.3	ug/L		10/22/20 09:55	10/23/20 03:20	1
Benzyl alcohol	ND	*	10	0.94	ug/L		10/22/20 09:55	10/23/20 03:20	1
Bis(2-chloroethoxy)methane	ND		10	0.64	ug/L		10/22/20 09:55	10/23/20 03:20	1
Bis(2-chloroethyl)ether	ND		1.0	0.69	ug/L		10/22/20 09:55	10/23/20 03:20	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-1

Client Sample ID: ORS-INFLUENT

Date Collected: 10/20/20 09:30
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221020-1

Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		2.0	1.0	ug/L		10/22/20 09:55	10/23/20 03:20	1
Butyl benzyl phthalate	ND		10	0.85	ug/L		10/22/20 09:55	10/23/20 03:20	1
Carbazole	ND		10	0.68	ug/L		10/22/20 09:55	10/23/20 03:20	1
Chrysene	ND		2.0	0.91	ug/L		10/22/20 09:55	10/23/20 03:20	1
Dibenz(a,h)anthracene	ND		1.0	0.74	ug/L		10/22/20 09:55	10/23/20 03:20	1
Dibenzofuran	ND		10	1.1	ug/L		10/22/20 09:55	10/23/20 03:20	1
Diethyl phthalate	ND		10	0.98	ug/L		10/22/20 09:55	10/23/20 03:20	1
Dimethyl phthalate	ND		10	1.6	ug/L		10/22/20 09:55	10/23/20 03:20	1
Di-n-butyl phthalate	ND		10	0.75	ug/L		10/22/20 09:55	10/23/20 03:20	1
Di-n-octyl phthalate	ND		10	1.4	ug/L		10/22/20 09:55	10/23/20 03:20	1
Diphenyl ether	ND		10	1.2	ug/L		10/22/20 09:55	10/23/20 03:20	1
Fluoranthene	ND		10	0.84	ug/L		10/22/20 09:55	10/23/20 03:20	1
Fluorene	ND		10	0.91	ug/L		10/22/20 09:55	10/23/20 03:20	1
Hexachlorobenzene	ND		1.0	0.91	ug/L		10/22/20 09:55	10/23/20 03:20	1
Hexachlorobutadiene	ND		1.0	0.44	ug/L		10/22/20 09:55	10/23/20 03:20	1
Hexachlorocyclopentadiene	ND		10	1.7	ug/L		10/22/20 09:55	10/23/20 03:20	1
Hexachloroethane	ND		2.0	1.2	ug/L		10/22/20 09:55	10/23/20 03:20	1
Indeno[1,2,3-cd]pyrene	ND		2.0	1.3	ug/L		10/22/20 09:55	10/23/20 03:20	1
Isophorone	ND		10	1.9	ug/L		10/22/20 09:55	10/23/20 03:20	1
Naphthalene	**7.8**		2.0	1.1	ug/L		10/22/20 09:55	10/23/20 03:20	1
n-Decane	ND		10	1.3	ug/L		10/22/20 09:55	10/23/20 03:20	1
Nitrobenzene	ND		2.0	1.6	ug/L		10/22/20 09:55	10/23/20 03:20	1
N-Nitrosodimethylamine	ND		10	0.64	ug/L		10/22/20 09:55	10/23/20 03:20	1
N-Nitrosodi-n-propylamine	ND		2.0	0.98	ug/L		10/22/20 09:55	10/23/20 03:20	1
N-Nitrosodiphenylamine	ND		10	0.89	ug/L		10/22/20 09:55	10/23/20 03:20	1
Pentachlorophenol	ND		20	3.0	ug/L		10/22/20 09:55	10/23/20 03:20	1
Phenanthrene	ND		10	1.5	ug/L		10/22/20 09:55	10/23/20 03:20	1
Phenol	**1.8**	**J**	10	1.2	ug/L		10/22/20 09:55	10/23/20 03:20	1
Pyrene	ND		10	1.6	ug/L		10/22/20 09:55	10/23/20 03:20	1
Pyridine	ND		10	5.9	ug/L		10/22/20 09:55	10/23/20 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*14 - 149*	*10/22/20 09:55*	*10/23/20 03:20*	*1*
2-Fluorobiphenyl	*68*		*44 - 129*	*10/22/20 09:55*	*10/23/20 03:20*	*1*
2-Fluorophenol	*40*		*10 - 76*	*10/22/20 09:55*	*10/23/20 03:20*	*1*
Nitrobenzene-d5	*83*		*15 - 314*	*10/22/20 09:55*	*10/23/20 03:20*	*1*
Phenol-d5	*26*		*8 - 424*	*10/22/20 09:55*	*10/23/20 03:20*	*1*
Terphenyl-d14	*84*		*28 - 150*	*10/22/20 09:55*	*10/23/20 03:20*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO	**1300**		130	130	ug/L			10/22/20 08:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*86*		*80 - 150*		*10/22/20 08:33*	*5*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C44)	**0.37**		0.13	0.039	mg/L		10/21/20 14:39	10/22/20 07:49	1
ORO (C28-C44)	**0.13**		0.10	0.029	mg/L		10/21/20 14:39	10/22/20 07:49	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-1

Client Sample ID: ORS-INFLUENT

Date Collected: 10/20/20 09:30
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221020-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*100*		*38 - 149*	*10/21/20 14:39*	*10/22/20 07:49*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**630000**		3200	390	ug/L			10/26/20 01:08	10
Sulfate	**100000**		4800	1600	ug/L			10/26/20 01:08	10

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	11	ug/L		10/23/20 07:07	10/23/20 23:36	1
Antimony	ND		2.0	0.65	ug/L		10/23/20 07:07	10/23/20 23:36	1
Arsenic	**5.4**		2.0	0.61	ug/L		10/23/20 07:07	10/26/20 11:34	1
Barium	**250**		4.0	1.0	ug/L		10/23/20 07:07	10/26/20 11:34	1
Beryllium	ND		0.80	0.060	ug/L		10/23/20 07:07	10/23/20 23:36	1
Cadmium	ND		2.0	0.43	ug/L		10/23/20 07:07	10/23/20 23:36	1
Calcium	**140000**		200	22	ug/L		10/23/20 07:07	10/23/20 23:36	1
Chromium	ND		4.0	0.45	ug/L		10/23/20 07:07	10/23/20 23:36	1
Cobalt	**1.7**	**J**	4.0	0.19	ug/L		10/23/20 07:07	10/23/20 23:36	1
Copper	**1.3**	**J**	4.0	1.1	ug/L		10/23/20 07:07	10/23/20 23:36	1
Iron	**5000**		120	17	ug/L		10/23/20 07:07	10/23/20 23:36	1
Lead	ND		1.2	0.071	ug/L		10/23/20 07:07	10/23/20 23:36	1
Magnesium	**47000**		200	27	ug/L		10/23/20 07:07	10/23/20 23:36	1
Manganese	**2300**		8.0	0.75	ug/L		10/23/20 07:07	10/23/20 23:36	1
Nickel	**3.7**	**J**	4.0	0.84	ug/L		10/23/20 07:07	10/23/20 23:36	1
Potassium	**6700**		200	84	ug/L		10/23/20 07:07	10/23/20 23:36	1
Selenium	**1.7**	**J**	2.5	0.39	ug/L		10/23/20 07:07	10/23/20 23:36	1
Silver	ND		2.0	0.12	ug/L		10/23/20 07:07	10/23/20 23:36	1
Sodium	**360000**		200	20	ug/L		10/23/20 07:07	10/23/20 23:36	1
Thallium	ND		0.80	0.15	ug/L		10/23/20 07:07	10/23/20 23:36	1
Vanadium	ND		4.0	0.24	ug/L		10/23/20 07:07	10/23/20 23:36	1
Zinc	**2.8**	**J**	16	2.6	ug/L		10/23/20 07:07	10/23/20 23:36	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		10/22/20 12:16	10/22/20 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**63**	**B**	1.0	0.23	NTU			10/21/20 14:15	2
Phenols, Total	ND		50	41	ug/L		10/26/20 10:34	10/26/20 13:18	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	ND		5.0	5.0	mg/L			10/23/20 15:16	1
SGT-HEM	ND		5.0	5.0	mg/L			10/23/20 15:16	1
Total Dissolved Solids	**1700000**		50000	50000	ug/L			10/23/20 11:39	1
Total Suspended Solids	**12000**		6300	6300	ug/L			10/23/20 07:10	1
Settleable Solids	ND		0.10	0.10	mL/L			10/21/20 10:00	1
pH	**8.0**	**HF**	0.1	0.1	SU			10/25/20 13:30	1
Temperature	**21.1**	**HF**	0.1	0.1	Degrees C			10/25/20 13:30	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-1

Client Sample ID: QAQC_TB

Date Collected: 10/20/20 09:30
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221020-2

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/23/20 00:14	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/23/20 00:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/23/20 00:14	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/23/20 00:14	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/23/20 00:14	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/23/20 00:14	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/23/20 00:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/23/20 00:14	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/23/20 00:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/23/20 00:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/23/20 00:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/23/20 00:14	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/23/20 00:14	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/23/20 00:14	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/23/20 00:14	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			10/23/20 00:14	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/23/20 00:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/23/20 00:14	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/23/20 00:14	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/23/20 00:14	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/23/20 00:14	1
1,4-Dioxane	ND		50	28	ug/L			10/23/20 00:14	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/23/20 00:14	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/23/20 00:14	1
2-Hexanone	ND		5.0	2.9	ug/L			10/23/20 00:14	1
2-Propanol	**50**		10	5.9	ug/L			10/23/20 00:14	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/23/20 00:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/23/20 00:14	1
Acetonitrile	ND		10	5.0	ug/L			10/23/20 00:14	1
Benzene	ND		1.0	0.43	ug/L			10/23/20 00:14	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/23/20 00:14	1
Bromobenzene	ND		1.0	0.35	ug/L			10/23/20 00:14	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/23/20 00:14	1
Bromoform	ND		1.0	0.54	ug/L			10/23/20 00:14	1
Bromomethane	ND		1.0	0.45	ug/L			10/23/20 00:14	1
Butyl acetate	ND		2.0	0.33	ug/L			10/23/20 00:14	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/23/20 00:14	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/23/20 00:14	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/23/20 00:14	1
Chloroethane	ND		1.0	0.32	ug/L			10/23/20 00:14	1
Chloroform	ND		1.0	0.33	ug/L			10/23/20 00:14	1
Chloromethane	ND		1.0	0.43	ug/L			10/23/20 00:14	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			10/23/20 00:14	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/23/20 00:14	1
Cyclohexane	ND		1.0	0.32	ug/L			10/23/20 00:14	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/23/20 00:14	1
Dibromomethane	ND		1.0	0.60	ug/L			10/23/20 00:14	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/23/20 00:14	1
Diisopropyl ether	ND		1.0	0.45	ug/L			10/23/20 00:14	1

Client Sample ID: QAQC_TB
Date Collected: 10/20/20 09:30
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221020-2
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl acetate	ND		2.0	0.73	ug/L			10/23/20 00:14	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/23/20 00:14	1
Freon 113	ND		1.0	0.31	ug/L			10/23/20 00:14	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/23/20 00:14	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/23/20 00:14	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/23/20 00:14	1
Methyl iodide	ND	*	1.0	0.48	ug/L			10/23/20 00:14	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/23/20 00:14	1
Methylene Chloride	**0.35**	**J**	1.0	0.32	ug/L			10/23/20 00:14	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/23/20 00:14	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/23/20 00:14	1
n-Heptane	ND		5.0	0.47	ug/L			10/23/20 00:14	1
n-Hexane	ND		1.0	0.69	ug/L			10/23/20 00:14	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/23/20 00:14	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/23/20 00:14	1
o-Xylene	ND		1.0	0.36	ug/L			10/23/20 00:14	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/23/20 00:14	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/23/20 00:14	1
Styrene	ND		1.0	0.42	ug/L			10/23/20 00:14	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/23/20 00:14	1
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/23/20 00:14	1
Tetrachloroethene	ND		1.0	0.25	ug/L			10/23/20 00:14	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/23/20 00:14	1
Toluene	ND		1.0	0.38	ug/L			10/23/20 00:14	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/23/20 00:14	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/23/20 00:14	1
Trichloroethene	ND		1.0	0.31	ug/L			10/23/20 00:14	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/23/20 00:14	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/23/20 00:14	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/23/20 00:14	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/23/20 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*		*10/23/20 00:14*	*1*
Bromofluorobenzene	*89*		*60 - 140*		*10/23/20 00:14*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*		*10/23/20 00:14*	*1*
Toluene-d8 (Surr)	*90*		*60 - 140*		*10/23/20 00:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/22/20 11:00	1
Acetone	ND		5.0	4.4	ug/L			10/22/20 11:00	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			10/22/20 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 123*		*10/22/20 11:00*	*1*
4-Bromofluorobenzene	*97*		*76 - 120*		*10/22/20 11:00*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 124*		*10/22/20 11:00*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/22/20 11:00*	*1*

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
460-221020-1	ORS-INFLUENT	105	106	99	105
460-221020-2	QAQC_TB	104	89	104	90
LCS 460-733802/4	Lab Control Sample	108	103	103	106
LCS 460-734016/3	Lab Control Sample	101	93	100	97
LCSD 460-733802/5	Lab Control Sample Dup	103	103	108	105
LCSD 460-734016/4	Lab Control Sample Dup	106	106	103	110
MB 460-733802/8	Method Blank	97	101	97	116
MB 460-734016/7	Method Blank	104	107	105	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-123)	(76-120)	(77-124)	(80-120)
460-221020-1	ORS-INFLUENT	100	98	87	100
460-221020-2	QAQC_TB	94	97	93	98
LCS 460-733766/4	Lab Control Sample	93	97	91	98
LCSD 460-733766/5	Lab Control Sample Dup	101	98	95	99
MB 460-733766/8	Method Blank	96	99	94	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(14-149)	(44-129)	(10-76)	(15-314)	(8-424)	(28-150)
460-221020-1	ORS-INFLUENT	92	68	40	83	26	84
LCS 460-733828/2-A	Lab Control Sample	128	86	52	100	33	103
LCSD 460-733828/3-A	Lab Control Sample Dup	106	74	45	87	28	86
MB 460-733828/1-A	Method Blank	124	83	51	100	32	100

Surrogate Legend

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

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221020-1
Project/Site: EMGPRP-31097

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TFT1 (80-150)									
460-221020-1	ORS-INFLUENT	86									
LCS 460-733515/2	Lab Control Sample	95									
LCSD 460-733515/3	Lab Control Sample Dup	105									
MB 460-733515/5	Method Blank	103									

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	OTPH (38-149)									
460-221020-1	ORS-INFLUENT	100									
LCS 460-733549/24-A	Lab Control Sample	117									
LCSD 460-733549/25-A	Lab Control Sample Dup	104									
MB 460-733549/1-A	Method Blank	79									

Surrogate Legend

OTPH = o-Terphenyl

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-733802/8
Matrix: Water
Analysis Batch: 733802

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/22/20 11:48	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/22/20 11:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/22/20 11:48	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/22/20 11:48	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/22/20 11:48	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/22/20 11:48	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/22/20 11:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/22/20 11:48	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/22/20 11:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/22/20 11:48	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/22/20 11:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/22/20 11:48	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/22/20 11:48	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/22/20 11:48	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/22/20 11:48	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			10/22/20 11:48	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/22/20 11:48	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/22/20 11:48	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/22/20 11:48	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/20 11:48	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/22/20 11:48	1
1,4-Dioxane	ND		50	28	ug/L			10/22/20 11:48	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/22/20 11:48	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/22/20 11:48	1
2-Hexanone	ND		5.0	2.9	ug/L			10/22/20 11:48	1
2-Propanol	ND		10	5.9	ug/L			10/22/20 11:48	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/22/20 11:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/22/20 11:48	1
Acetonitrile	ND		10	5.0	ug/L			10/22/20 11:48	1
Benzene	ND		1.0	0.43	ug/L			10/22/20 11:48	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/22/20 11:48	1
Bromobenzene	ND		1.0	0.35	ug/L			10/22/20 11:48	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/22/20 11:48	1
Bromoform	ND		1.0	0.54	ug/L			10/22/20 11:48	1
Bromomethane	ND		1.0	0.45	ug/L			10/22/20 11:48	1
Butyl acetate	ND		2.0	0.33	ug/L			10/22/20 11:48	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/22/20 11:48	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/22/20 11:48	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/22/20 11:48	1
Chloroethane	ND		1.0	0.32	ug/L			10/22/20 11:48	1
Chloroform	ND		1.0	0.33	ug/L			10/22/20 11:48	1
Chloromethane	ND		1.0	0.43	ug/L			10/22/20 11:48	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			10/22/20 11:48	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/22/20 11:48	1
Cyclohexane	ND		1.0	0.32	ug/L			10/22/20 11:48	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/22/20 11:48	1
Dibromomethane	ND		1.0	0.60	ug/L			10/22/20 11:48	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/22/20 11:48	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-733802/8
Matrix: Water
Analysis Batch: 733802

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.45	ug/L			10/22/20 11:48	1
Ethyl acetate	ND		2.0	0.73	ug/L			10/22/20 11:48	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/22/20 11:48	1
Freon 113	ND		1.0	0.31	ug/L			10/22/20 11:48	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/22/20 11:48	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/22/20 11:48	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/22/20 11:48	1
Methyl iodide	ND		1.0	0.48	ug/L			10/22/20 11:48	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/22/20 11:48	1
Methylene Chloride	ND		1.0	0.32	ug/L			10/22/20 11:48	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/22/20 11:48	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/22/20 11:48	1
n-Heptane	ND		5.0	0.47	ug/L			10/22/20 11:48	1
n-Hexane	ND		1.0	0.69	ug/L			10/22/20 11:48	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/22/20 11:48	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/22/20 11:48	1
o-Xylene	ND		1.0	0.36	ug/L			10/22/20 11:48	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/22/20 11:48	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/22/20 11:48	1
Styrene	ND		1.0	0.42	ug/L			10/22/20 11:48	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/22/20 11:48	1
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/22/20 11:48	1
Tetrachloroethene	ND		1.0	0.25	ug/L			10/22/20 11:48	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/22/20 11:48	1
Toluene	ND		1.0	0.38	ug/L			10/22/20 11:48	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/22/20 11:48	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/22/20 11:48	1
Trichloroethene	ND		1.0	0.31	ug/L			10/22/20 11:48	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/22/20 11:48	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/22/20 11:48	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/22/20 11:48	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/22/20 11:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*		*10/22/20 11:48*	*1*
Bromofluorobenzene	*101*		*60 - 140*		*10/22/20 11:48*	*1*
Dibromofluoromethane (Surr)	*97*		*60 - 140*		*10/22/20 11:48*	*1*
Toluene-d8 (Surr)	*116*		*60 - 140*		*10/22/20 11:48*	*1*

Lab Sample ID: LCS 460-733802/4
Matrix: Water
Analysis Batch: 733802

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.5		ug/L		97	60 - 140
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.0		ug/L		105	60 - 140
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-733802/4
Matrix: Water
Analysis Batch: 733802

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	19.5		ug/L		97	70 - 130
1,1-Dichloroethene	20.0	19.9		ug/L		99	50 - 150
1,1-Dichloropropene	20.0	20.1		ug/L		100	60 - 140
1,2,3-Trichlorobenzene	20.0	24.5		ug/L		122	60 - 140
1,2,3-Trichloropropane	20.0	21.7		ug/L		108	60 - 140
1,2,4-Trichlorobenzene	20.0	23.2		ug/L		116	60 - 140
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		99	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	18.7		ug/L		94	60 - 140
1,2-Dibromoethane	20.0	20.1		ug/L		101	60 - 140
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	65 - 135
1,2-Dichloroethane	20.0	20.0		ug/L		100	70 - 130
1,2-Dichloropropane	20.0	19.8		ug/L		99	35 - 165
1,3,5-Trimethylbenzene	20.0	20.1		ug/L		100	60 - 140
1,3-Dichlorobenzene	20.0	20.5		ug/L		103	70 - 130
1,3-Dichloropropane	20.0	20.2		ug/L		101	60 - 140
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	65 - 135
1,4-Dioxane	400	407		ug/L		102	60 - 140
2,2-Dichloropropane	20.0	19.9		ug/L		99	60 - 140
2-Chlorotoluene	20.0	20.7		ug/L		104	60 - 140
2-Hexanone	100	102		ug/L		102	60 - 140
4-Chlorotoluene	20.0	20.9		ug/L		105	60 - 140
4-Methyl-2-pentanone (MIBK)	100	103		ug/L		103	60 - 140
Acetonitrile	200	241		ug/L		120	60 - 140
Benzene	20.0	20.6		ug/L		103	65 - 135
Benzyl chloride	20.0	14.8		ug/L		74	60 - 140
Bromobenzene	20.0	20.7		ug/L		104	60 - 140
Bromodichloromethane	20.0	19.6		ug/L		98	65 - 135
Bromoform	20.0	19.0		ug/L		95	70 - 130
Bromomethane	20.0	14.3		ug/L		72	15 - 185
Butyl acetate	20.0	20.5		ug/L		102	60 - 140
Carbon disulfide	20.0	19.7		ug/L		98	60 - 140
Carbon tetrachloride	20.0	20.1		ug/L		101	70 - 130
Chlorobenzene	20.0	19.6		ug/L		98	65 - 135
Chloroethane	20.0	21.9		ug/L		109	40 - 160
Chloroform	20.0	20.0		ug/L		100	70 - 135
Chloromethane	20.0	20.5		ug/L		102	0.1 - 205
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	60 - 140
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	25 - 175
Cyclohexane	20.0	19.5		ug/L		98	60 - 140
Dibromochloromethane	20.0	20.1		ug/L		101	70 - 135
Dibromomethane	20.0	19.6		ug/L		98	60 - 140
Dichlorodifluoromethane	20.0	19.8		ug/L		99	60 - 140
Diisopropyl ether	20.0	20.8		ug/L		104	60 - 140
Ethyl acetate	40.0	34.6		ug/L		87	60 - 140
Ethylbenzene	20.0	20.8		ug/L		104	60 - 140
Freon 113	20.0	19.6		ug/L		98	60 - 140
Hexachlorobutadiene	20.0	17.5		ug/L		87	60 - 140
Isopropyl acetate	20.0	18.4		ug/L		92	60 - 140
Isopropylbenzene	20.0	20.3		ug/L		101	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-733802/4
Matrix: Water
Analysis Batch: 733802

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl iodide	20.0	11.7	*	ug/L		59	60 - 140
Methyl methacrylate	40.0	37.5		ug/L		94	60 - 140
Methylene Chloride	20.0	19.2		ug/L		96	60 - 140
m-Xylene & p-Xylene	20.0	19.9		ug/L		99	60 - 140
n-Butylbenzene	20.0	18.1		ug/L		90	60 - 140
n-Heptane	20.0	19.3		ug/L		96	60 - 140
n-Hexane	20.0	19.7		ug/L		99	60 - 140
n-Propyl acetate	20.0	19.3		ug/L		96	60 - 140
N-Propylbenzene	20.0	20.0		ug/L		100	60 - 140
o-Xylene	20.0	19.9		ug/L		99	60 - 140
p-Isopropyltoluene	20.0	18.1		ug/L		91	60 - 140
sec-Butylbenzene	20.0	18.7		ug/L		93	60 - 140
Styrene	20.0	20.9		ug/L		104	60 - 140
t-Butyl alcohol	200	194		ug/L		97	60 - 140
tert-Butylbenzene	20.0	18.8		ug/L		94	60 - 140
Tetrachloroethene	20.0	20.6		ug/L		103	70 - 130
Tetrahydrofuran	40.0	36.5		ug/L		91	60 - 140
Toluene	20.0	20.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	20.0	19.6		ug/L		98	70 - 130
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	50 - 150
Trichloroethene	20.0	20.4		ug/L		102	65 - 135
Trichlorofluoromethane	20.0	22.0		ug/L		110	50 - 150
Vinyl acetate	40.0	37.4		ug/L		93	60 - 140
Vinyl chloride	20.0	20.6		ug/L		103	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*
Bromofluorobenzene	*103*		*60 - 140*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*106*		*60 - 140*

Lab Sample ID: LCSD 460-733802/5
Matrix: Water
Analysis Batch: 733802

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	60 - 140	2	50
1,1,1-Trichloroethane	20.0	21.1		ug/L		105	70 - 130	5	36
1,1,2,2-Tetrachloroethane	20.0	21.3		ug/L		107	60 - 140	1	61
1,1,2-Trichloroethane	20.0	21.1		ug/L		106	70 - 130	3	45
1,1-Dichloroethane	20.0	19.3		ug/L		97	70 - 130	1	40
1,1-Dichloroethene	20.0	19.4		ug/L		97	50 - 150	2	32
1,1-Dichloropropene	20.0	20.2		ug/L		101	60 - 140	1	50
1,2,3-Trichlorobenzene	20.0	25.1		ug/L		125	60 - 140	3	50
1,2,3-Trichloropropane	20.0	21.6		ug/L		108	60 - 140	1	50
1,2,4-Trichlorobenzene	20.0	22.9		ug/L		114	60 - 140	2	50
1,2,4-Trimethylbenzene	20.0	19.9		ug/L		99	60 - 140	1	50
1,2-Dibromo-3-Chloropropane	20.0	18.6		ug/L		93	60 - 140	0	50

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-733802/5
Matrix: Water
Analysis Batch: 733802

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	20.0	20.5		ug/L		102	60 - 140	2	50
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	65 - 135	3	57
1,2-Dichloroethane	20.0	19.3		ug/L		96	70 - 130	4	49
1,2-Dichloropropane	20.0	20.3		ug/L		101	35 - 165	2	55
1,3,5-Trimethylbenzene	20.0	20.4		ug/L		102	60 - 140	2	50
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	70 - 130	0	43
1,3-Dichloropropane	20.0	22.0		ug/L		110	60 - 140	9	50
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	65 - 135	1	57
1,4-Dioxane	400	385		ug/L		96	60 - 140	5	50
2,2-Dichloropropane	20.0	19.2		ug/L		96	60 - 140	3	50
2-Chlorotoluene	20.0	21.1		ug/L		105	60 - 140	2	50
2-Hexanone	100	104		ug/L		104	60 - 140	1	50
4-Chlorotoluene	20.0	21.6		ug/L		108	60 - 140	3	50
4-Methyl-2-pentanone (MIBK)	100	103		ug/L		103	60 - 140	0	50
Acetonitrile	200	213		ug/L		107	60 - 140	12	50
Benzene	20.0	20.8		ug/L		104	65 - 135	1	61
Benzyl chloride	20.0	14.2		ug/L		71	60 - 140	4	50
Bromobenzene	20.0	20.1		ug/L		100	60 - 140	3	50
Bromodichloromethane	20.0	19.5		ug/L		98	65 - 135	0	56
Bromoform	20.0	19.8		ug/L		99	70 - 130	4	42
Bromomethane	20.0	15.6		ug/L		78	15 - 185	8	61
Butyl acetate	20.0	20.6		ug/L		103	60 - 140	1	50
Carbon disulfide	20.0	19.7		ug/L		98	60 - 140	0	50
Carbon tetrachloride	20.0	20.0		ug/L		100	70 - 130	1	41
Chlorobenzene	20.0	19.8		ug/L		99	65 - 135	1	53
Chloroethane	20.0	24.0		ug/L		120	40 - 160	9	78
Chloroform	20.0	19.7		ug/L		99	70 - 135	1	54
Chloromethane	20.0	21.6		ug/L		108	0.1 - 205	6	60
cis-1,2-Dichloroethene	20.0	19.7		ug/L		99	60 - 140	1	50
cis-1,3-Dichloropropene	20.0	19.5		ug/L		98	25 - 175	0	58
Cyclohexane	20.0	19.8		ug/L		99	60 - 140	1	50
Dibromochloromethane	20.0	20.2		ug/L		101	70 - 135	0	50
Dibromomethane	20.0	19.7		ug/L		98	60 - 140	0	50
Dichlorodifluoromethane	20.0	20.6		ug/L		103	60 - 140	4	50
Diisopropyl ether	20.0	20.4		ug/L		102	60 - 140	2	50
Ethyl acetate	40.0	36.7		ug/L		92	60 - 140	6	50
Ethylbenzene	20.0	21.6		ug/L		108	60 - 140	4	63
Freon 113	20.0	19.4		ug/L		97	60 - 140	1	50
Hexachlorobutadiene	20.0	17.3		ug/L		86	60 - 140	1	50
Isopropyl acetate	20.0	18.9		ug/L		94	60 - 140	3	50
Isopropylbenzene	20.0	20.6		ug/L		103	60 - 140	2	50
Methyl iodide	20.0	10.8	*	ug/L		54	60 - 140	8	50
Methyl methacrylate	40.0	38.9		ug/L		97	60 - 140	4	50
Methylene Chloride	20.0	18.1		ug/L		91	60 - 140	6	28
m-Xylene & p-Xylene	20.0	20.5		ug/L		103	60 - 140	3	50
n-Butylbenzene	20.0	18.0		ug/L		90	60 - 140	1	50
n-Heptane	20.0	18.5		ug/L		93	60 - 140	4	50
n-Hexane	20.0	19.3		ug/L		96	60 - 140	2	50
n-Propyl acetate	20.0	19.7		ug/L		98	60 - 140	2	50

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-733802/5
Matrix: Water
Analysis Batch: 733802

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene			20.0	19.7		ug/L		99	60 - 140	1	50
o-Xylene			20.0	20.5		ug/L		103	60 - 140	3	50
p-Isopropyltoluene			20.0	18.5		ug/L		92	60 - 140	2	50
sec-Butylbenzene			20.0	18.6		ug/L		93	60 - 140	1	50
Styrene			20.0	21.2		ug/L		106	60 - 140	1	50
t-Butyl alcohol			200	191		ug/L		96	60 - 140	1	50
tert-Butylbenzene			20.0	18.8		ug/L		94	60 - 140	0	50
Tetrachloroethene			20.0	20.6		ug/L		103	70 - 130	0	39
Tetrahydrofuran			40.0	36.0		ug/L		90	60 - 140	2	50
Toluene			20.0	20.8		ug/L		104	70 - 130	3	41
trans-1,2-Dichloroethene			20.0	18.8		ug/L		94	70 - 130	4	45
trans-1,3-Dichloropropene			20.0	20.1		ug/L		100	50 - 150	5	86
Trichloroethene			20.0	20.8		ug/L		104	65 - 135	2	48
Trichlorofluoromethane			20.0	23.2		ug/L		116	50 - 150	5	84
Vinyl acetate			40.0	36.6		ug/L		92	60 - 140	2	50
Vinyl chloride			20.0	22.6		ug/L		113	5 - 195	9	66

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Bromofluorobenzene	*103*		*60 - 140*
Dibromofluoromethane (Surr)	*108*		*60 - 140*
Toluene-d8 (Surr)	*105*		*60 - 140*

Lab Sample ID: MB 460-734016/7
Matrix: Water
Analysis Batch: 734016

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/22/20 23:16	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/22/20 23:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/22/20 23:16	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/22/20 23:16	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/22/20 23:16	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/22/20 23:16	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/22/20 23:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/22/20 23:16	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/22/20 23:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/22/20 23:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/22/20 23:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/22/20 23:16	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/22/20 23:16	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/22/20 23:16	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/22/20 23:16	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			10/22/20 23:16	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/22/20 23:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/22/20 23:16	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/22/20 23:16	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/22/20 23:16	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-734016/7
Matrix: Water
Analysis Batch: 734016

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/22/20 23:16	1
1,4-Dioxane	ND		50	28	ug/L			10/22/20 23:16	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/22/20 23:16	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/22/20 23:16	1
2-Hexanone	ND		5.0	2.9	ug/L			10/22/20 23:16	1
2-Propanol	ND		10	5.9	ug/L			10/22/20 23:16	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/22/20 23:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/22/20 23:16	1
Acetonitrile	ND		10	5.0	ug/L			10/22/20 23:16	1
Benzene	ND		1.0	0.43	ug/L			10/22/20 23:16	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/22/20 23:16	1
Bromobenzene	ND		1.0	0.35	ug/L			10/22/20 23:16	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/22/20 23:16	1
Bromoform	ND		1.0	0.54	ug/L			10/22/20 23:16	1
Bromomethane	ND		1.0	0.45	ug/L			10/22/20 23:16	1
Butyl acetate	ND		2.0	0.33	ug/L			10/22/20 23:16	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/22/20 23:16	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/22/20 23:16	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/22/20 23:16	1
Chloroethane	ND		1.0	0.32	ug/L			10/22/20 23:16	1
Chloroform	ND		1.0	0.33	ug/L			10/22/20 23:16	1
Chloromethane	ND		1.0	0.43	ug/L			10/22/20 23:16	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			10/22/20 23:16	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/22/20 23:16	1
Cyclohexane	ND		1.0	0.32	ug/L			10/22/20 23:16	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/22/20 23:16	1
Dibromomethane	ND		1.0	0.60	ug/L			10/22/20 23:16	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/22/20 23:16	1
Diisopropyl ether	ND		1.0	0.45	ug/L			10/22/20 23:16	1
Ethyl acetate	ND		2.0	0.73	ug/L			10/22/20 23:16	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/22/20 23:16	1
Freon 113	ND		1.0	0.31	ug/L			10/22/20 23:16	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/22/20 23:16	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/22/20 23:16	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/22/20 23:16	1
Methyl iodide	ND		1.0	0.48	ug/L			10/22/20 23:16	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/22/20 23:16	1
Methylene Chloride	ND		1.0	0.32	ug/L			10/22/20 23:16	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/22/20 23:16	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/22/20 23:16	1
n-Heptane	ND		5.0	0.47	ug/L			10/22/20 23:16	1
n-Hexane	ND		1.0	0.69	ug/L			10/22/20 23:16	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/22/20 23:16	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/22/20 23:16	1
o-Xylene	ND		1.0	0.36	ug/L			10/22/20 23:16	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/22/20 23:16	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/22/20 23:16	1
Styrene	ND		1.0	0.42	ug/L			10/22/20 23:16	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/22/20 23:16	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-734016/7
Matrix: Water
Analysis Batch: 734016

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/22/20 23:16	1
Tetrachloroethene	ND		1.0	0.25	ug/L			10/22/20 23:16	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/22/20 23:16	1
Toluene	ND		1.0	0.38	ug/L			10/22/20 23:16	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/22/20 23:16	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/22/20 23:16	1
Trichloroethene	ND		1.0	0.31	ug/L			10/22/20 23:16	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/22/20 23:16	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/22/20 23:16	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/22/20 23:16	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/22/20 23:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*		*10/22/20 23:16*	*1*
Bromofluorobenzene	*107*		*60 - 140*		*10/22/20 23:16*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*		*10/22/20 23:16*	*1*
Toluene-d8 (Surr)	*108*		*60 - 140*		*10/22/20 23:16*	*1*

Lab Sample ID: LCS 460-734016/3
Matrix: Water
Analysis Batch: 734016

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	17.5		ug/L		88	60 - 140
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	60 - 140
1,1,2-Trichloroethane	20.0	20.5		ug/L		102	70 - 130
1,1-Dichloroethane	20.0	18.4		ug/L		92	70 - 130
1,1-Dichloroethene	20.0	19.9		ug/L		100	50 - 150
1,1-Dichloropropene	20.0	18.7		ug/L		93	60 - 140
1,2,3-Trichlorobenzene	20.0	25.6		ug/L		128	60 - 140
1,2,3-Trichloropropane	20.0	20.6		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	20.0	24.7		ug/L		123	60 - 140
1,2,4-Trimethylbenzene	20.0	19.1		ug/L		95	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	18.2		ug/L		91	60 - 140
1,2-Dibromoethane	20.0	19.1		ug/L		96	60 - 140
1,2-Dichlorobenzene	20.0	19.7		ug/L		98	65 - 135
1,2-Dichloroethane	20.0	18.7		ug/L		94	70 - 130
1,2-Dichloropropane	20.0	19.1		ug/L		95	35 - 165
1,3,5-Trimethylbenzene	20.0	19.3		ug/L		96	60 - 140
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130
1,3-Dichloropropane	20.0	19.0		ug/L		95	60 - 140
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	65 - 135
1,4-Dioxane	400	386		ug/L		97	60 - 140
2,2-Dichloropropane	20.0	18.1		ug/L		90	60 - 140
2-Chlorotoluene	20.0	19.7		ug/L		99	60 - 140
2-Hexanone	100	118		ug/L		118	60 - 140
4-Chlorotoluene	20.0	19.9		ug/L		99	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-734016/3
Matrix: Water
Analysis Batch: 734016

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	100	105		ug/L		105	60 - 140
Acetonitrile	200	222		ug/L		111	60 - 140
Benzene	20.0	17.7		ug/L		89	65 - 135
Benzyl chloride	20.0	13.1		ug/L		66	60 - 140
Bromobenzene	20.0	19.8		ug/L		99	60 - 140
Bromodichloromethane	20.0	18.2		ug/L		91	65 - 135
Bromoform	20.0	15.0		ug/L		75	70 - 130
Bromomethane	20.0	19.1		ug/L		96	15 - 185
Butyl acetate	20.0	19.7		ug/L		98	60 - 140
Carbon disulfide	20.0	19.3		ug/L		96	60 - 140
Carbon tetrachloride	20.0	17.9		ug/L		90	70 - 130
Chlorobenzene	20.0	18.5		ug/L		92	65 - 135
Chloroethane	20.0	25.8		ug/L		129	40 - 160
Chloroform	20.0	18.8		ug/L		94	70 - 135
Chloromethane	20.0	22.8		ug/L		114	0.1 - 205
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	60 - 140
cis-1,3-Dichloropropene	20.0	16.2		ug/L		81	25 - 175
Cyclohexane	20.0	18.4		ug/L		92	60 - 140
Dibromochloromethane	20.0	18.0		ug/L		90	70 - 135
Dibromomethane	20.0	18.7		ug/L		93	60 - 140
Dichlorodifluoromethane	20.0	17.3		ug/L		86	60 - 140
Diisopropyl ether	20.0	19.5		ug/L		98	60 - 140
Ethyl acetate	40.0	37.8		ug/L		94	60 - 140
Ethylbenzene	20.0	18.8		ug/L		94	60 - 140
Freon 113	20.0	19.1		ug/L		95	60 - 140
Hexachlorobutadiene	20.0	16.9		ug/L		85	60 - 140
Isopropyl acetate	20.0	18.2		ug/L		91	60 - 140
Isopropylbenzene	20.0	17.4		ug/L		87	60 - 140
Methyl iodide	20.0	11.1	*	ug/L		55	60 - 140
Methyl methacrylate	40.0	37.4		ug/L		94	60 - 140
Methylene Chloride	20.0	18.7		ug/L		93	60 - 140
m-Xylene & p-Xylene	20.0	17.3		ug/L		87	60 - 140
n-Butylbenzene	20.0	17.2		ug/L		86	60 - 140
n-Heptane	20.0	16.8		ug/L		84	60 - 140
n-Hexane	20.0	18.3		ug/L		91	60 - 140
n-Propyl acetate	20.0	18.0		ug/L		90	60 - 140
N-Propylbenzene	20.0	18.9		ug/L		94	60 - 140
o-Xylene	20.0	17.1		ug/L		86	60 - 140
p-Isopropyltoluene	20.0	17.5		ug/L		88	60 - 140
sec-Butylbenzene	20.0	18.0		ug/L		90	60 - 140
Styrene	20.0	18.1		ug/L		91	60 - 140
t-Butyl alcohol	200	188		ug/L		94	60 - 140
tert-Butylbenzene	20.0	18.0		ug/L		90	60 - 140
Tetrachloroethene	20.0	19.2		ug/L		96	70 - 130
Tetrahydrofuran	40.0	36.1		ug/L		90	60 - 140
Toluene	20.0	18.3		ug/L		91	70 - 130
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	70 - 130
trans-1,3-Dichloropropene	20.0	17.6		ug/L		88	50 - 150
Trichloroethene	20.0	19.5		ug/L		97	65 - 135

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-734016/3
Matrix: Water
Analysis Batch: 734016

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	25.7		ug/L		129	50 - 150
Vinyl acetate	40.0	36.8		ug/L		92	60 - 140
Vinyl chloride	20.0	23.8		ug/L		119	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Bromofluorobenzene	*93*		*60 - 140*
Dibromofluoromethane (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*97*		*60 - 140*

Lab Sample ID: LCSD 460-734016/4
Matrix: Water
Analysis Batch: 734016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.2		ug/L		96	60 - 140	9	50
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	70 - 130	9	36
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L		94	60 - 140	6	61
1,1,2-Trichloroethane	20.0	22.8		ug/L		114	70 - 130	11	45
1,1-Dichloroethane	20.0	18.0		ug/L		90	70 - 130	2	40
1,1-Dichloroethene	20.0	22.1		ug/L		111	50 - 150	11	32
1,1-Dichloropropene	20.0	21.4		ug/L		107	60 - 140	14	50
1,2,3-Trichlorobenzene	20.0	23.1		ug/L		116	60 - 140	10	50
1,2,3-Trichloropropane	20.0	19.2		ug/L		96	60 - 140	7	50
1,2,4-Trichlorobenzene	20.0	21.6		ug/L		108	60 - 140	13	50
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		97	60 - 140	1	50
1,2-Dibromo-3-Chloropropane	20.0	17.2		ug/L		86	60 - 140	6	50
1,2-Dibromoethane	20.0	21.5		ug/L		107	60 - 140	12	50
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	65 - 135	2	57
1,2-Dichloroethane	20.0	19.8		ug/L		99	70 - 130	6	49
1,2-Dichloropropane	20.0	18.6		ug/L		93	35 - 165	2	55
1,3,5-Trimethylbenzene	20.0	18.6		ug/L		93	60 - 140	4	50
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	70 - 130	4	43
1,3-Dichloropropane	20.0	21.1		ug/L		105	60 - 140	11	50
1,4-Dichlorobenzene	20.0	19.7		ug/L		99	65 - 135	1	57
1,4-Dioxane	400	393		ug/L		98	60 - 140	2	50
2,2-Dichloropropane	20.0	18.6		ug/L		93	60 - 140	3	50
2-Chlorotoluene	20.0	19.0		ug/L		95	60 - 140	4	50
2-Hexanone	100	103		ug/L		103	60 - 140	13	50
4-Chlorotoluene	20.0	19.2		ug/L		96	60 - 140	3	50
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	60 - 140	4	50
Acetonitrile	200	221		ug/L		111	60 - 140	0	50
Benzene	20.0	22.1		ug/L		110	65 - 135	22	61
Benzyl chloride	20.0	13.6		ug/L		68	60 - 140	4	50
Bromobenzene	20.0	19.5		ug/L		97	60 - 140	2	50
Bromodichloromethane	20.0	17.6		ug/L		88	65 - 135	4	56
Bromoform	20.0	17.8		ug/L		89	70 - 130	17	42
Bromomethane	20.0	17.6		ug/L		88	15 - 185	8	61

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-734016/4
Matrix: Water
Analysis Batch: 734016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Butyl acetate	20.0	21.7		ug/L		108	60 - 140	10	50
Carbon disulfide	20.0	21.4		ug/L		107	60 - 140	10	50
Carbon tetrachloride	20.0	21.0		ug/L		105	70 - 130	16	41
Chlorobenzene	20.0	19.8		ug/L		99	65 - 135	7	53
Chloroethane	20.0	26.7		ug/L		133	40 - 160	3	78
Chloroform	20.0	20.6		ug/L		103	70 - 135	9	54
Chloromethane	20.0	25.0		ug/L		125	0.1 - 205	9	60
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	60 - 140	5	50
cis-1,3-Dichloropropene	20.0	18.9		ug/L		95	25 - 175	15	58
Cyclohexane	20.0	19.6		ug/L		98	60 - 140	6	50
Dibromochloromethane	20.0	20.4		ug/L		102	70 - 135	12	50
Dibromomethane	20.0	17.6		ug/L		88	60 - 140	6	50
Dichlorodifluoromethane	20.0	20.6		ug/L		103	60 - 140	18	50
Diisopropyl ether	20.0	19.4		ug/L		97	60 - 140	1	50
Ethyl acetate	40.0	37.5		ug/L		94	60 - 140	1	50
Ethylbenzene	20.0	20.7		ug/L		104	60 - 140	10	63
Freon 113	20.0	21.2		ug/L		106	60 - 140	11	50
Hexachlorobutadiene	20.0	15.9		ug/L		79	60 - 140	6	50
Isopropyl acetate	20.0	19.6		ug/L		98	60 - 140	7	50
Isopropylbenzene	20.0	20.4		ug/L		102	60 - 140	16	50
Methyl iodide	20.0	13.6		ug/L		68	60 - 140	20	50
Methyl methacrylate	40.0	35.2		ug/L		88	60 - 140	6	50
Methylene Chloride	20.0	19.7		ug/L		99	60 - 140	5	28
m-Xylene & p-Xylene	20.0	20.0		ug/L		100	60 - 140	15	50
n-Butylbenzene	20.0	17.9		ug/L		89	60 - 140	4	50
n-Heptane	20.0	18.0		ug/L		90	60 - 140	7	50
n-Hexane	20.0	17.9		ug/L		90	60 - 140	2	50
n-Propyl acetate	20.0	17.2		ug/L		86	60 - 140	5	50
N-Propylbenzene	20.0	18.3		ug/L		91	60 - 140	3	50
o-Xylene	20.0	19.9		ug/L		100	60 - 140	15	50
p-Isopropyltoluene	20.0	17.9		ug/L		89	60 - 140	2	50
sec-Butylbenzene	20.0	20.4		ug/L		102	60 - 140	13	50
Styrene	20.0	21.1		ug/L		105	60 - 140	15	50
t-Butyl alcohol	200	190		ug/L		95	60 - 140	1	50
tert-Butylbenzene	20.0	17.4		ug/L		87	60 - 140	3	50
Tetrachloroethene	20.0	22.1		ug/L		110	70 - 130	14	39
Tetrahydrofuran	40.0	38.3		ug/L		96	60 - 140	6	50
Toluene	20.0	23.5		ug/L		118	70 - 130	25	41
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	70 - 130	1	45
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	50 - 150	12	86
Trichloroethene	20.0	19.0		ug/L		95	65 - 135	3	48
Trichlorofluoromethane	20.0	25.5		ug/L		127	50 - 150	1	84
Vinyl acetate	40.0	34.6		ug/L		87	60 - 140	6	50
Vinyl chloride	20.0	24.9		ug/L		125	5 - 195	4	66

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*
Bromofluorobenzene	*106*		*60 - 140*

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-734016/4
Matrix: Water
Analysis Batch: 734016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*110*		*60 - 140*

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

Lab Sample ID: MB 460-733766/8
Matrix: Water
Analysis Batch: 733766

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/22/20 10:36	1
Acetone	ND		5.0	4.4	ug/L			10/22/20 10:36	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			10/22/20 10:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*10/22/20 10:36*	*1*
4-Bromofluorobenzene	*99*		*76 - 120*		*10/22/20 10:36*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 124*		*10/22/20 10:36*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/22/20 10:36*	*1*

Lab Sample ID: LCS 460-733766/4
Matrix: Water
Analysis Batch: 733766

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Butanone (MEK)			100	89.7		ug/L		90	69 - 128		
Acetone			100	84.6		ug/L		85	61 - 134		
Methyl tert-butyl ether			20.0	18.1		ug/L		91	65 - 131		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*
4-Bromofluorobenzene	*97*		*76 - 120*
Dibromofluoromethane (Surr)	*91*		*77 - 124*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 460-733766/5
Matrix: Water
Analysis Batch: 733766

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			100	95.1		ug/L		95	69 - 128	6	30
Acetone			100	89.1		ug/L		89	61 - 134	5	30
Methyl tert-butyl ether			20.0	21.1		ug/L		105	65 - 131	15	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*
4-Bromofluorobenzene	*98*		*76 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 124*

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

Lab Sample ID: LCSD 460-733766/5
Matrix: Water
Analysis Batch: 733766

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-733828/1-A
Matrix: Water
Analysis Batch: 733989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733828

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10	1.2	ug/L		10/22/20 09:55	10/22/20 20:45	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.2	ug/L		10/22/20 09:55	10/22/20 20:45	1
1,2,4-Trichlorobenzene	ND		2.0	1.3	ug/L		10/22/20 09:55	10/22/20 20:45	1
1,2-Dichlorobenzene	ND		10	0.60	ug/L		10/22/20 09:55	10/22/20 20:45	1
1,2-Diphenylhydrazine	ND		10	0.37	ug/L		10/22/20 09:55	10/22/20 20:45	1
1,3-Dichlorobenzene	ND		10	2.0	ug/L		10/22/20 09:55	10/22/20 20:45	1
1,4-Dichlorobenzene	ND		10	0.52	ug/L		10/22/20 09:55	10/22/20 20:45	1
1,4-Dioxane	ND		10	1.6	ug/L		10/22/20 09:55	10/22/20 20:45	1
1-Methylnaphthalene	ND		4.0	1.1	ug/L		10/22/20 09:55	10/22/20 20:45	1
2,2'-oxybis[1-chloropropane]	ND		10	0.63	ug/L		10/22/20 09:55	10/22/20 20:45	1
2,3,4,6-Tetrachlorophenol	ND		10	0.75	ug/L		10/22/20 09:55	10/22/20 20:45	1
2,4,5-Trichlorophenol	ND		10	0.85	ug/L		10/22/20 09:55	10/22/20 20:45	1
2,4,6-Trichlorophenol	ND		10	0.70	ug/L		10/22/20 09:55	10/22/20 20:45	1
2,4-Dichlorophenol	ND		10	1.2	ug/L		10/22/20 09:55	10/22/20 20:45	1
2,4-Dimethylphenol	ND		10	0.66	ug/L		10/22/20 09:55	10/22/20 20:45	1
2,4-Dinitrophenol	ND		20	2.0	ug/L		10/22/20 09:55	10/22/20 20:45	1
2,4-Dinitrotoluene	ND		2.0	1.0	ug/L		10/22/20 09:55	10/22/20 20:45	1
2,6-Dinitrotoluene	ND		2.0	1.4	ug/L		10/22/20 09:55	10/22/20 20:45	1
2-Chloronaphthalene	ND		10	1.2	ug/L		10/22/20 09:55	10/22/20 20:45	1
2-Chlorophenol	ND		10	0.38	ug/L		10/22/20 09:55	10/22/20 20:45	1
2-Methylnaphthalene	ND		10	1.1	ug/L		10/22/20 09:55	10/22/20 20:45	1
2-Methylphenol	ND		10	0.67	ug/L		10/22/20 09:55	10/22/20 20:45	1
2-Nitroaniline	ND		10	0.47	ug/L		10/22/20 09:55	10/22/20 20:45	1
2-Nitrophenol	ND		10	1.9	ug/L		10/22/20 09:55	10/22/20 20:45	1
3,3'-Dichlorobenzidine	ND		10	3.3	ug/L		10/22/20 09:55	10/22/20 20:45	1
3-Nitroaniline	ND		10	2.5	ug/L		10/22/20 09:55	10/22/20 20:45	1
4,6-Dinitro-2-methylphenol	ND		20	3.4	ug/L		10/22/20 09:55	10/22/20 20:45	1
4-Bromophenyl phenyl ether	ND		10	0.75	ug/L		10/22/20 09:55	10/22/20 20:45	1
4-Chloro-3-methylphenol	ND		10	1.2	ug/L		10/22/20 09:55	10/22/20 20:45	1
4-Chloroaniline	ND		10	1.9	ug/L		10/22/20 09:55	10/22/20 20:45	1
4-Chlorophenyl phenyl ether	ND		10	1.3	ug/L		10/22/20 09:55	10/22/20 20:45	1
4-Methylphenol	ND		10	0.76	ug/L		10/22/20 09:55	10/22/20 20:45	1
4-Nitroaniline	ND		10	1.3	ug/L		10/22/20 09:55	10/22/20 20:45	1
4-Nitrophenol	ND		20	1.7	ug/L		10/22/20 09:55	10/22/20 20:45	1
Acenaphthene	ND		10	1.1	ug/L		10/22/20 09:55	10/22/20 20:45	1
Acenaphthylene	ND		10	0.82	ug/L		10/22/20 09:55	10/22/20 20:45	1
Acetophenone	ND		10	2.5	ug/L		10/22/20 09:55	10/22/20 20:45	1
Aniline	ND		10	1.1	ug/L		10/22/20 09:55	10/22/20 20:45	1
Anthracene	ND		10	1.3	ug/L		10/22/20 09:55	10/22/20 20:45	1
Benzidine	ND		10	0.70	ug/L		10/22/20 09:55	10/22/20 20:45	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-733828/1-A
Matrix: Water
Analysis Batch: 733989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733828

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		1.0	0.59	ug/L		10/22/20 09:55	10/22/20 20:45	1
Benzo[a]pyrene	ND		1.0	0.68	ug/L		10/22/20 09:55	10/22/20 20:45	1
Benzo[b]fluoranthene	ND		2.0	1.4	ug/L		10/22/20 09:55	10/22/20 20:45	1
Benzo[g,h,i]perylene	ND		10	1.3	ug/L		10/22/20 09:55	10/22/20 20:45	1
Benzo[k]fluoranthene	ND		1.0	0.67	ug/L		10/22/20 09:55	10/22/20 20:45	1
Benzoic acid	ND		50	9.3	ug/L		10/22/20 09:55	10/22/20 20:45	1
Benzyl alcohol	ND		10	0.94	ug/L		10/22/20 09:55	10/22/20 20:45	1
Bis(2-chloroethoxy)methane	ND		10	0.64	ug/L		10/22/20 09:55	10/22/20 20:45	1
Bis(2-chloroethyl)ether	ND		1.0	0.69	ug/L		10/22/20 09:55	10/22/20 20:45	1
Bis(2-ethylhexyl) phthalate	ND		2.0	1.0	ug/L		10/22/20 09:55	10/22/20 20:45	1
Butyl benzyl phthalate	ND		10	0.85	ug/L		10/22/20 09:55	10/22/20 20:45	1
Carbazole	ND		10	0.68	ug/L		10/22/20 09:55	10/22/20 20:45	1
Chrysene	ND		2.0	0.91	ug/L		10/22/20 09:55	10/22/20 20:45	1
Dibenz(a,h)anthracene	ND		1.0	0.74	ug/L		10/22/20 09:55	10/22/20 20:45	1
Dibenzofuran	ND		10	1.1	ug/L		10/22/20 09:55	10/22/20 20:45	1
Diethyl phthalate	ND		10	0.98	ug/L		10/22/20 09:55	10/22/20 20:45	1
Dimethyl phthalate	ND		10	1.6	ug/L		10/22/20 09:55	10/22/20 20:45	1
Di-n-butyl phthalate	ND		10	0.75	ug/L		10/22/20 09:55	10/22/20 20:45	1
Di-n-octyl phthalate	ND		10	1.4	ug/L		10/22/20 09:55	10/22/20 20:45	1
Diphenyl ether	ND		10	1.2	ug/L		10/22/20 09:55	10/22/20 20:45	1
Fluoranthene	ND		10	0.84	ug/L		10/22/20 09:55	10/22/20 20:45	1
Fluorene	ND		10	0.91	ug/L		10/22/20 09:55	10/22/20 20:45	1
Hexachlorobenzene	ND		1.0	0.91	ug/L		10/22/20 09:55	10/22/20 20:45	1
Hexachlorobutadiene	ND		1.0	0.44	ug/L		10/22/20 09:55	10/22/20 20:45	1
Hexachlorocyclopentadiene	ND		10	1.7	ug/L		10/22/20 09:55	10/22/20 20:45	1
Hexachloroethane	ND		2.0	1.2	ug/L		10/22/20 09:55	10/22/20 20:45	1
Indeno[1,2,3-cd]pyrene	ND		2.0	1.3	ug/L		10/22/20 09:55	10/22/20 20:45	1
Isophorone	ND		10	1.9	ug/L		10/22/20 09:55	10/22/20 20:45	1
Naphthalene	ND		2.0	1.1	ug/L		10/22/20 09:55	10/22/20 20:45	1
n-Decane	ND		10	1.3	ug/L		10/22/20 09:55	10/22/20 20:45	1
Nitrobenzene	ND		2.0	1.6	ug/L		10/22/20 09:55	10/22/20 20:45	1
N-Nitrosodimethylamine	ND		10	0.64	ug/L		10/22/20 09:55	10/22/20 20:45	1
N-Nitrosodi-n-propylamine	ND		2.0	0.98	ug/L		10/22/20 09:55	10/22/20 20:45	1
N-Nitrosodiphenylamine	ND		10	0.89	ug/L		10/22/20 09:55	10/22/20 20:45	1
Pentachlorophenol	ND		20	3.0	ug/L		10/22/20 09:55	10/22/20 20:45	1
Phenanthrene	ND		10	1.5	ug/L		10/22/20 09:55	10/22/20 20:45	1
Phenol	ND		10	1.2	ug/L		10/22/20 09:55	10/22/20 20:45	1
Pyrene	ND		10	1.6	ug/L		10/22/20 09:55	10/22/20 20:45	1
Pyridine	ND		10	5.9	ug/L		10/22/20 09:55	10/22/20 20:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*124*		*14 - 149*	*10/22/20 09:55*	*10/22/20 20:45*	*1*
2-Fluorobiphenyl	*83*		*44 - 129*	*10/22/20 09:55*	*10/22/20 20:45*	*1*
2-Fluorophenol	*51*		*10 - 76*	*10/22/20 09:55*	*10/22/20 20:45*	*1*
Nitrobenzene-d5	*100*		*15 - 314*	*10/22/20 09:55*	*10/22/20 20:45*	*1*
Phenol-d5	*32*		*8 - 424*	*10/22/20 09:55*	*10/22/20 20:45*	*1*
Terphenyl-d14	*100*		*28 - 150*	*10/22/20 09:55*	*10/22/20 20:45*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-733828/2-A
Matrix: Water
Analysis Batch: 733989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733828

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	80.0	70.4		ug/L		88	60 - 140
1,2,4-Trichlorobenzene	80.0	62.2		ug/L		78	44 - 142
1,2-Dichlorobenzene	80.0	57.1		ug/L		71	25 - 101
1,2-Diphenylhydrazine	80.0	69.3		ug/L		87	60 - 140
1,3-Dichlorobenzene	80.0	51.1		ug/L		64	25 - 101
1,4-Dichlorobenzene	80.0	52.5		ug/L		66	27 - 101
1-Methylnaphthalene	80.0	67.3		ug/L		84	60 - 140
2,2'-oxybis[1-chloropropane]	80.0	61.8		ug/L		77	36 - 166
2,3,4,6-Tetrachlorophenol	80.0	90.4		ug/L		113	60 - 140
2,4,6-Trichlorophenol	80.0	89.4		ug/L		112	37 - 144
2,4-Dichlorophenol	80.0	77.2		ug/L		97	39 - 135
2,4-Dimethylphenol	80.0	71.3		ug/L		89	32 - 120
2,4-Dinitrophenol	160	303		ug/L		189	0.1 - 191
2,4-Dinitrotoluene	80.0	100		ug/L		126	39 - 139
2,6-Dinitrotoluene	80.0	91.7		ug/L		115	50 - 158
2-Chloronaphthalene	80.0	69.2		ug/L		86	60 - 120
2-Chlorophenol	80.0	65.7		ug/L		82	55 - 101
2-Nitrophenol	80.0	95.2		ug/L		119	29 - 182
3,3'-Dichlorobenzidine	80.0	73.8		ug/L		92	0.1 - 262
4,6-Dinitro-2-methylphenol	160	246		ug/L		154	0.1 - 181
4-Bromophenyl phenyl ether	80.0	73.5		ug/L		92	53 - 127
4-Chloro-3-methylphenol	80.0	72.7		ug/L		91	22 - 147
4-Chlorophenyl phenyl ether	80.0	72.8		ug/L		91	25 - 158
4-Nitrophenol	160	77.9		ug/L		49	0.1 - 132
Acenaphthene	80.0	71.5		ug/L		89	47 - 135
Acenaphthylene	80.0	75.3		ug/L		94	33 - 145
Acetophenone	80.0	74.2		ug/L		93	60 - 140
Anthracene	80.0	76.7		ug/L		96	27 - 133
Benzidine	80.0	31.4		ug/L		39	0.1 - 136
Benzo[a]anthracene	80.0	73.4		ug/L		92	33 - 143
Benzo[a]pyrene	80.0	85.2		ug/L		106	17 - 163
Benzo[b]fluoranthene	80.0	86.1		ug/L		108	24 - 159
Benzo[g,h,i]perylene	80.0	86.3		ug/L		108	0.1 - 219
Benzo[k]fluoranthene	80.0	87.7		ug/L		110	11 - 162
Benzyl alcohol	80.0	55.9		ug/L		70	60 - 140
Bis(2-chloroethoxy)methane	80.0	74.3		ug/L		93	33 - 184
Bis(2-chloroethyl)ether	80.0	75.9		ug/L		95	12 - 158
Bis(2-ethylhexyl) phthalate	80.0	82.4		ug/L		103	8 - 158
Butyl benzyl phthalate	80.0	79.8		ug/L		100	0.1 - 152
Chrysene	80.0	76.5		ug/L		96	17 - 168
Dibenz(a,h)anthracene	80.0	91.0		ug/L		114	0.1 - 227
Diethyl phthalate	80.0	81.1		ug/L		101	0.1 - 120
Dimethyl phthalate	80.0	80.1		ug/L		100	0.1 - 120
Di-n-butyl phthalate	80.0	78.9		ug/L		99	1 - 120
Di-n-octyl phthalate	80.0	85.3		ug/L		107	4 - 146
Diphenyl ether	80.0	74.4		ug/L		93	60 - 140
Fluoranthene	80.0	82.1		ug/L		103	26 - 137
Fluorene	80.0	75.1		ug/L		94	59 - 121

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-733828/2-A
Matrix: Water
Analysis Batch: 733989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733828

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobenzene	80.0	81.1		ug/L		101	0.1 - 152
Hexachlorobutadiene	80.0	51.1		ug/L		64	24 - 120
Hexachlorocyclopentadiene	80.0	43.6		ug/L		54	8 - 105
Hexachloroethane	80.0	45.0		ug/L		56	40 - 120
Indeno[1,2,3-cd]pyrene	80.0	90.4		ug/L		113	0.1 - 171
Isophorone	80.0	76.1		ug/L		95	21 - 196
Naphthalene	80.0	70.2		ug/L		88	21 - 133
n-Decane	80.0	32.7		ug/L		41	0.1 - 107
Nitrobenzene	80.0	78.6		ug/L		98	35 - 180
N-Nitrosodimethylamine	80.0	43.1		ug/L		54	25 - 76
N-Nitrosodi-n-propylamine	80.0	70.9		ug/L		89	0.1 - 230
N-Nitrosodiphenylamine	80.0	75.2		ug/L		94	60 - 140
Pentachlorophenol	160	155		ug/L		97	14 - 176
Phenanthrene	80.0	75.8		ug/L		95	54 - 120
Phenol	80.0	30.1		ug/L		38	5 - 120
Pyrene	80.0	70.3		ug/L		88	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*128*		*14 - 149*
2-Fluorobiphenyl	*86*		*44 - 129*
2-Fluorophenol	*52*		*10 - 76*
Nitrobenzene-d5	*100*		*15 - 314*
Phenol-d5	*33*		*8 - 424*
Terphenyl-d14	*103*		*28 - 150*

Lab Sample ID: LCSD 460-733828/3-A
Matrix: Water
Analysis Batch: 733989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 733828

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	60.3		ug/L		75	60 - 140	15	50
1,2,4-Trichlorobenzene	80.0	52.9		ug/L		66	44 - 142	16	50
1,2-Dichlorobenzene	80.0	48.5		ug/L		61	25 - 101	16	50
1,2-Diphenylhydrazine	80.0	58.8		ug/L		74	60 - 140	16	50
1,3-Dichlorobenzene	80.0	45.3		ug/L		57	25 - 101	12	50
1,4-Dichlorobenzene	80.0	46.0		ug/L		58	27 - 101	13	50
1-Methylnaphthalene	80.0	57.1		ug/L		71	60 - 140	16	50
2,2'-oxybis[1-chloropropane]	80.0	53.0		ug/L		66	36 - 166	15	76
2,3,4,6-Tetrachlorophenol	80.0	75.2		ug/L		94	60 - 140	18	50
2,4,6-Trichlorophenol	80.0	74.9		ug/L		94	37 - 144	18	58
2,4-Dichlorophenol	80.0	68.1		ug/L		85	39 - 135	13	50
2,4-Dimethylphenol	80.0	60.7		ug/L		76	32 - 120	16	58
2,4-Dinitrophenol	160	258		ug/L		161	0.1 - 191	16	132
2,4-Dinitrotoluene	80.0	86.8		ug/L		108	39 - 139	15	42
2,6-Dinitrotoluene	80.0	79.9		ug/L		100	50 - 158	14	48
2-Chloronaphthalene	80.0	59.9		ug/L		75	60 - 120	14	24
2-Chlorophenol	80.0	56.9		ug/L		71	55 - 101	14	61
2-Nitrophenol	80.0	82.9		ug/L		104	29 - 182	14	55

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-733828/3-A
Matrix: Water
Analysis Batch: 733989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 733828

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	80.0	62.7		ug/L		78	0.1 - 262	16	108
4,6-Dinitro-2-methylphenol	160	209		ug/L		131	0.1 - 181	16	203
4-Bromophenyl phenyl ether	80.0	63.0		ug/L		79	53 - 127	15	43
4-Chloro-3-methylphenol	80.0	60.4		ug/L		76	22 - 147	18	73
4-Chlorophenyl phenyl ether	80.0	61.6		ug/L		77	25 - 158	17	61
4-Nitrophenol	160	55.7		ug/L		35	0.1 - 132	33	131
Acenaphthene	80.0	60.5		ug/L		76	47 - 135	17	48
Acenaphthylene	80.0	64.4		ug/L		80	33 - 145	16	74
Acetophenone	80.0	62.3		ug/L		78	60 - 140	17	50
Anthracene	80.0	64.6		ug/L		81	27 - 133	17	66
Benzidine	80.0	25.6		ug/L		32	0.1 - 136	20	50
Benzo[a]anthracene	80.0	62.4		ug/L		78	33 - 143	16	53
Benzo[a]pyrene	80.0	72.8		ug/L		91	17 - 163	16	72
Benzo[b]fluoranthene	80.0	75.7		ug/L		95	24 - 159	13	71
Benzo[g,h,i]perylene	80.0	73.9		ug/L		92	0.1 - 219	15	97
Benzo[k]fluoranthene	80.0	74.9		ug/L		94	11 - 162	16	63
Benzyl alcohol	80.0	47.4	*	ug/L		59	60 - 140	17	50
Bis(2-chloroethoxy)methane	80.0	63.9		ug/L		80	33 - 184	15	54
Bis(2-chloroethyl)ether	80.0	62.7		ug/L		78	12 - 158	19	108
Bis(2-ethylhexyl) phthalate	80.0	69.4		ug/L		87	8 - 158	17	82
Butyl benzyl phthalate	80.0	67.3		ug/L		84	0.1 - 152	17	60
Chrysene	80.0	62.7		ug/L		78	17 - 168	20	87
Dibenz(a,h)anthracene	80.0	77.0		ug/L		96	0.1 - 227	17	126
Diethyl phthalate	80.0	69.4		ug/L		87	0.1 - 120	15	100
Dimethyl phthalate	80.0	68.6		ug/L		86	0.1 - 120	15	183
Di-n-butyl phthalate	80.0	67.7		ug/L		85	1 - 120	15	47
Di-n-octyl phthalate	80.0	74.1		ug/L		93	4 - 146	14	69
Diphenyl ether	80.0	62.5		ug/L		78	60 - 140	17	50
Fluoranthene	80.0	71.3		ug/L		89	26 - 137	14	66
Fluorene	80.0	64.6		ug/L		81	59 - 121	15	38
Hexachlorobenzene	80.0	68.1		ug/L		85	0.1 - 152	17	55
Hexachlorobutadiene	80.0	43.5		ug/L		54	24 - 120	16	62
Hexachlorocyclopentadiene	80.0	38.0		ug/L		47	8 - 105	14	50
Hexachloroethane	80.0	37.4		ug/L		47	40 - 120	18	52
Indeno[1,2,3-cd]pyrene	80.0	76.7		ug/L		96	0.1 - 171	16	99
Isophorone	80.0	64.4		ug/L		80	21 - 196	17	93
Naphthalene	80.0	60.0		ug/L		75	21 - 133	16	65
n-Decane	80.0	27.3		ug/L		34	0.1 - 107	18	50
Nitrobenzene	80.0	68.2		ug/L		85	35 - 180	14	62
N-Nitrosodimethylamine	80.0	37.6		ug/L		47	25 - 76	14	50
N-Nitrosodi-n-propylamine	80.0	62.2		ug/L		78	0.1 - 230	13	87
N-Nitrosodiphenylamine	80.0	63.5		ug/L		79	60 - 140	17	50
Pentachlorophenol	160	136		ug/L		85	14 - 176	13	86
Phenanthrene	80.0	64.5		ug/L		81	54 - 120	16	39
Phenol	80.0	26.1		ug/L		33	5 - 120	14	64
Pyrene	80.0	59.9		ug/L		75	52 - 120	16	49

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-733828/3-A
Matrix: Water
Analysis Batch: 733989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 733828

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*106*		*14 - 149*
2-Fluorobiphenyl	*74*		*44 - 129*
2-Fluorophenol	*45*		*10 - 76*
Nitrobenzene-d5	*87*		*15 - 314*
Phenol-d5	*28*		*8 - 424*
Terphenyl-d14	*86*		*28 - 150*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 460-733515/5
Matrix: Water
Analysis Batch: 733515

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO	ND		25	25	ug/L			10/22/20 03:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*80 - 150*		*10/22/20 03:55*	*1*

Lab Sample ID: LCS 460-733515/2
Matrix: Water
Analysis Batch: 733515

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO			200	169		ug/L		85	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*95*		*80 - 150*

Lab Sample ID: LCSD 460-733515/3
Matrix: Water
Analysis Batch: 733515

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO			200	191		ug/L		96	80 - 120	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*80 - 150*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 460-733549/1-A
Matrix: Water
Analysis Batch: 733316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C44)	ND		0.13	0.039	mg/L		10/21/20 14:39	10/22/20 01:35	1
ORO (C28-C44)	ND		0.10	0.029	mg/L		10/21/20 14:39	10/22/20 01:35	1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 460-733549/1-A
Matrix: Water
Analysis Batch: 733316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733549

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		38 - 149	10/21/20 14:39	10/22/20 01:35	1

Lab Sample ID: LCS 460-733549/24-A
Matrix: Water
Analysis Batch: 733316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (C10-C44)	1.30	1.07		mg/L		82	57 - 126
ORO (C28-C44)	0.500	0.371		mg/L		74	50 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	117		38 - 149

Lab Sample ID: LCSD 460-733549/25-A
Matrix: Water
Analysis Batch: 733316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 733549

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (C10-C44)	1.30	1.12		mg/L		86	57 - 126	5	30
ORO (C28-C44)	0.500	0.385		mg/L		77	50 - 130	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	104		38 - 149

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-734884/3
Matrix: Water
Analysis Batch: 734884

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		320	39	ug/L			10/25/20 17:58	1
Sulfate	ND		480	160	ug/L			10/25/20 17:58	1

Lab Sample ID: LCS 460-734884/5
Matrix: Water
Analysis Batch: 734884

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3200	3070		ug/L		96	90 - 110
Sulfate	4800	4900		ug/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 460-734884/6
Matrix: Water
Analysis Batch: 734884

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			3200	3070		ug/L		96	90 - 110	0	15
Sulfate			4800	4900		ug/L		102	90 - 110	0	15

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 460-734126/1-A
Matrix: Water
Analysis Batch: 734828

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	11	ug/L		10/23/20 07:07	10/23/20 22:38	1
Antimony	ND		2.0	0.65	ug/L		10/23/20 07:07	10/23/20 22:38	1
Beryllium	ND		0.80	0.060	ug/L		10/23/20 07:07	10/23/20 22:38	1
Cadmium	ND		2.0	0.43	ug/L		10/23/20 07:07	10/23/20 22:38	1
Calcium	ND		200	22	ug/L		10/23/20 07:07	10/23/20 22:38	1
Chromium	ND		4.0	0.45	ug/L		10/23/20 07:07	10/23/20 22:38	1
Cobalt	ND		4.0	0.19	ug/L		10/23/20 07:07	10/23/20 22:38	1
Copper	ND		4.0	1.1	ug/L		10/23/20 07:07	10/23/20 22:38	1
Iron	ND		120	17	ug/L		10/23/20 07:07	10/23/20 22:38	1
Lead	0.144	J	1.2	0.071	ug/L		10/23/20 07:07	10/23/20 22:38	1
Magnesium	ND		200	27	ug/L		10/23/20 07:07	10/23/20 22:38	1
Manganese	ND		8.0	0.75	ug/L		10/23/20 07:07	10/23/20 22:38	1
Nickel	ND		4.0	0.84	ug/L		10/23/20 07:07	10/23/20 22:38	1
Potassium	ND		200	84	ug/L		10/23/20 07:07	10/23/20 22:38	1
Selenium	ND		2.5	0.39	ug/L		10/23/20 07:07	10/23/20 22:38	1
Silver	ND		2.0	0.12	ug/L		10/23/20 07:07	10/23/20 22:38	1
Sodium	ND		200	20	ug/L		10/23/20 07:07	10/23/20 22:38	1
Thallium	ND		0.80	0.15	ug/L		10/23/20 07:07	10/23/20 22:38	1
Vanadium	ND		4.0	0.24	ug/L		10/23/20 07:07	10/23/20 22:38	1
Zinc	ND		16	2.6	ug/L		10/23/20 07:07	10/23/20 22:38	1

Lab Sample ID: MB 460-734126/1-A
Matrix: Water
Analysis Batch: 734901

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.61	ug/L		10/23/20 07:07	10/26/20 09:50	1
Barium	ND		4.0	1.0	ug/L		10/23/20 07:07	10/26/20 09:50	1

Lab Sample ID: LCS 460-734126/2-A
Matrix: Water
Analysis Batch: 734828

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			2500	2650		ug/L		106	85 - 115
Antimony			25.0	27.2		ug/L		109	85 - 115
Beryllium			25.0	24.4		ug/L		98	85 - 115
Cadmium			25.0	25.7		ug/L		103	85 - 115
Calcium			2500	2680		ug/L		107	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-734126/2-A
Matrix: Water
Analysis Batch: 734828

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	50.0	51.5		ug/L		103	85 - 115
Cobalt	25.0	25.5		ug/L		102	85 - 115
Copper	50.0	53.6		ug/L		107	85 - 115
Iron	2500	2660		ug/L		107	85 - 115
Lead	25.0	25.5		ug/L		102	85 - 115
Magnesium	2500	2670		ug/L		107	85 - 115
Manganese	250	265		ug/L		106	85 - 115
Nickel	50.0	52.4		ug/L		105	85 - 115
Potassium	2500	2650		ug/L		106	85 - 115
Selenium	50.0	52.3		ug/L		105	85 - 115
Silver	25.0	24.9		ug/L		100	85 - 115
Sodium	2500	2720		ug/L		109	85 - 115
Thallium	20.0	19.4		ug/L		97	85 - 115
Vanadium	50.0	51.0		ug/L		102	85 - 115
Zinc	250	262		ug/L		105	85 - 115

Lab Sample ID: LCS 460-734126/2-A
Matrix: Water
Analysis Batch: 734901

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	49.1		ug/L		98	85 - 115
Barium	50.0	50.4		ug/L		101	85 - 115

Lab Sample ID: 460-221019-S-3-C MS
Matrix: Water
Analysis Batch: 734828

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		2500	2240		ug/L		90	70 - 130
Antimony	ND		25.0	23.2		ug/L		93	70 - 130
Beryllium	ND		25.0	21.2		ug/L		85	70 - 130
Cadmium	ND		25.0	22.8		ug/L		91	70 - 130
Calcium	120000		2500	106000	4	ug/L		-699	70 - 130
Chromium	ND		50.0	44.3		ug/L		89	70 - 130
Cobalt	1.6	J	25.0	22.9		ug/L		85	70 - 130
Copper	2.4	J	50.0	44.6		ug/L		85	70 - 130
Iron	5500	F1	2500	6760	F1	ug/L		52	70 - 130
Lead	0.17	J B	25.0	22.1		ug/L		88	70 - 130
Magnesium	40000		2500	35300	4	ug/L		-181	70 - 130
Manganese	2200		250	2040	4	ug/L		-60	70 - 130
Nickel	2.5	J	50.0	44.9		ug/L		85	70 - 130
Potassium	5000	F1	2500	6390	F1	ug/L		58	70 - 130
Selenium	ND		50.0	46.3		ug/L		93	70 - 130
Silver	ND		25.0	21.6		ug/L		87	70 - 130
Sodium	170000		2500	146000	4	ug/L		-1037	70 - 130
Thallium	ND		20.0	17.5		ug/L		87	70 - 130
Vanadium	ND		50.0	43.8		ug/L		88	70 - 130
Zinc	4.6	J	250	231		ug/L		90	70 - 130

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-221019-S-3-C MS
Matrix: Water
Analysis Batch: 734901

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.2	J	50.0	47.1		ug/L		92	70 - 130
Barium	170	F1	50.0	192	F1	ug/L		38	70 - 130

Lab Sample ID: 460-221019-S-19-C DU
Matrix: Water
Analysis Batch: 734828

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	ND		ND		ug/L		NC	20
Antimony	ND		ND		ug/L		NC	20
Beryllium	ND		ND		ug/L		NC	20
Cadmium	ND		ND		ug/L		NC	20
Calcium	110000		106000		ug/L		8	20
Chromium	ND		ND		ug/L		NC	20
Cobalt	2.0	J	1.87	J	ug/L		6	20
Copper	1.4	J	1.13	J	ug/L		20	20
Iron	11000		10600		ug/L		7	20
Lead	0.099	J B	0.0980	J	ug/L		1	20
Magnesium	34000		32100		ug/L		7	20
Manganese	2900		2700		ug/L		6	20
Nickel	2.5	J	1.95	J F5	ug/L		25	20
Potassium	8100	F1	7470		ug/L		8	20
Selenium	4.4		3.76		ug/L		15	20
Silver	ND		ND		ug/L		NC	20
Sodium	110000		98900		ug/L		8	20
Thallium	ND		ND		ug/L		NC	20
Vanadium	ND		ND		ug/L		NC	20
Zinc	7.7	J	6.31	J	ug/L		20	20

Lab Sample ID: 460-221019-S-19-C DU
Matrix: Water
Analysis Batch: 734901

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 734126

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	11		10.6		ug/L		6	20
Barium	300		281		ug/L		8	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 460-733869/1-A
Matrix: Water
Analysis Batch: 733935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		10/22/20 12:16	10/22/20 13:34	1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 460-733869/2-A
Matrix: Water
Analysis Batch: 733935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733869

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			1.00	1.03		ug/L		103	85 - 115		

Lab Sample ID: 460-221072-D-5-C MS
Matrix: Water
Analysis Batch: 733935

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 733869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		1.00	1.04		ug/L		104	70 - 130		

Lab Sample ID: 460-221072-D-5-B DU
Matrix: Water
Analysis Batch: 733935

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 733869

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		ug/L		NC	20

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 460-734247/1
Matrix: Water
Analysis Batch: 734247

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	ND		5.0	5.0	mg/L			10/23/20 15:16	1

Lab Sample ID: LCS 460-734247/2
Matrix: Water
Analysis Batch: 734247

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
HEM			40.0	33.70		mg/L		84	78 - 114		

Lab Sample ID: LCSD 460-734247/3
Matrix: Water
Analysis Batch: 734247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM			40.0	33.50		mg/L		84	78 - 114	1	18

Lab Sample ID: 460-221019-AG-1 MS
Matrix: Water
Analysis Batch: 734247

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
HEM	ND		40.0	33.80		mg/L		85	78 - 114		

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 460-733528/10
Matrix: Water
Analysis Batch: 733528

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	0.112	J	0.50	0.11	NTU			10/21/20 14:15	1

Lab Sample ID: LCSSRM 460-733528/11
Matrix: Water
Analysis Batch: 733528

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Turbidity	13.0	12.9		NTU		99.2	84.6 - 115.4

Lab Sample ID: 460-221026-M-1 DU
Matrix: Water
Analysis Batch: 733528

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Turbidity	5.4	B	5.38		NTU		0.6	10

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 460-734865/1-A
Matrix: Water
Analysis Batch: 734914

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		50	41	ug/L		10/26/20 10:34	10/26/20 13:11	1

Lab Sample ID: LCS 460-734865/2-A
Matrix: Water
Analysis Batch: 734914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	400	354		ug/L		89	86 - 118

Lab Sample ID: MRL 460-734914/11
Matrix: Water
Analysis Batch: 734914

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.0500	0.0473	J	mg/L		95	50 - 150

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 460-734210/1
Matrix: Water
Analysis Batch: 734210

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		1000	1000	ug/L			10/23/20 11:39	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSSRM 460-734210/2
Matrix: Water
Analysis Batch: 734210

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	632000	668000		ug/L		105.7	89.9 - 110.0

Lab Sample ID: 460-221019-AB-19 DU
Matrix: Water
Analysis Batch: 734210

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	810000		864000	F3	ug/L		6	5

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 460-734119/1
Matrix: Water
Analysis Batch: 734119

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2500	2500	ug/L			10/23/20 06:54	1

Lab Sample ID: LCSSRM 460-734119/2
Matrix: Water
Analysis Batch: 734119

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	78700	78000		ug/L		99.1	81.4 - 111.6

Lab Sample ID: 460-220787-B-1 DU
Matrix: Water
Analysis Batch: 734119

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	55000		54500		ug/L		3	5

Method: SM 2540F - Solids, Settleable

Lab Sample ID: MB 460-733529/1
Matrix: Water
Analysis Batch: 733529

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			10/21/20 08:45	1

Method: SM 4500 H+ B - pH

Lab Sample ID: MB 460-734652/2
Matrix: Water
Analysis Batch: 734652

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.1		0.1	0.1	SU			10/25/20 13:20	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-1

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: MB 460-734652/2
Matrix: Water
Analysis Batch: 734652

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	22.1		0.1	0.1	Degrees C			10/25/20 13:20	1

Lab Sample ID: LCSSRM 460-734652/3
Matrix: Water
Analysis Batch: 734652

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			8.31	8.2		SU		98.3	97.6 - 102.4		

Lab Sample ID: 460-221026-L-1 DU
Matrix: Water
Analysis Batch: 734652

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.5			8.5		SU				0.1	10
Temperature	20.9			21.0		Degrees C				0.5	

GC/MS VOA

Analysis Batch: 733766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	8260D	
460-221020-2	QAQC_TB	Total/NA	Water	8260D	
MB 460-733766/8	Method Blank	Total/NA	Water	8260D	
LCS 460-733766/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-733766/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 733802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	624.1	
MB 460-733802/8	Method Blank	Total/NA	Water	624.1	
LCS 460-733802/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-733802/5	Lab Control Sample Dup	Total/NA	Water	624.1	

Analysis Batch: 734016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-2	QAQC_TB	Total/NA	Water	624.1	
MB 460-734016/7	Method Blank	Total/NA	Water	624.1	
LCS 460-734016/3	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-734016/4	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 733828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	625	
MB 460-733828/1-A	Method Blank	Total/NA	Water	625	
LCS 460-733828/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 460-733828/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 733989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	625.1	733828
MB 460-733828/1-A	Method Blank	Total/NA	Water	625.1	733828
LCS 460-733828/2-A	Lab Control Sample	Total/NA	Water	625.1	733828
LCSD 460-733828/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	733828

GC VOA

Analysis Batch: 733515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	8015D	
MB 460-733515/5	Method Blank	Total/NA	Water	8015D	
LCS 460-733515/2	Lab Control Sample	Total/NA	Water	8015D	
LCSD 460-733515/3	Lab Control Sample Dup	Total/NA	Water	8015D	

GC Semi VOA

Analysis Batch: 733316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	8015D	733549
MB 460-733549/1-A	Method Blank	Total/NA	Water	8015D	733549
LCS 460-733549/24-A	Lab Control Sample	Total/NA	Water	8015D	733549

GC Semi VOA (Continued)

Analysis Batch: 733316 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 460-733549/25-A	Lab Control Sample Dup	Total/NA	Water	8015D	733549

Prep Batch: 733549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	3510C	
MB 460-733549/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-733549/24-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-733549/25-A	Lab Control Sample Dup	Total/NA	Water	3510C	

HPLC/IC

Analysis Batch: 734884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	300.0	
MB 460-734884/3	Method Blank	Total/NA	Water	300.0	
LCS 460-734884/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-734884/6	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 733869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	245.1	
MB 460-733869/1-A	Method Blank	Total/NA	Water	245.1	
LCS 460-733869/2-A	Lab Control Sample	Total/NA	Water	245.1	
460-221072-D-5-C MS	Matrix Spike	Total/NA	Water	245.1	
460-221072-D-5-B DU	Duplicate	Total/NA	Water	245.1	

Analysis Batch: 733935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	245.1	733869
MB 460-733869/1-A	Method Blank	Total/NA	Water	245.1	733869
LCS 460-733869/2-A	Lab Control Sample	Total/NA	Water	245.1	733869
460-221072-D-5-C MS	Matrix Spike	Total/NA	Water	245.1	733869
460-221072-D-5-B DU	Duplicate	Total/NA	Water	245.1	733869

Prep Batch: 734126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total Recoverable	Water	200.8	
MB 460-734126/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 460-734126/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
460-221019-S-3-C MS	Matrix Spike	Total Recoverable	Water	200.8	
460-221019-S-19-C DU	Duplicate	Total Recoverable	Water	200.8	

Analysis Batch: 734828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total Recoverable	Water	200.8	734126
MB 460-734126/1-A	Method Blank	Total Recoverable	Water	200.8	734126
LCS 460-734126/2-A	Lab Control Sample	Total Recoverable	Water	200.8	734126
460-221019-S-3-C MS	Matrix Spike	Total Recoverable	Water	200.8	734126
460-221019-S-19-C DU	Duplicate	Total Recoverable	Water	200.8	734126

Metals

Analysis Batch: 734901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total Recoverable	Water	200.8	734126
MB 460-734126/1-A	Method Blank	Total Recoverable	Water	200.8	734126
LCS 460-734126/2-A	Lab Control Sample	Total Recoverable	Water	200.8	734126
460-221019-S-3-C MS	Matrix Spike	Total Recoverable	Water	200.8	734126
460-221019-S-19-C DU	Duplicate	Total Recoverable	Water	200.8	734126

General Chemistry

Analysis Batch: 733528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	180.1	
MB 460-733528/10	Method Blank	Total/NA	Water	180.1	
LCSSRM 460-733528/11	Lab Control Sample	Total/NA	Water	180.1	
460-221026-M-1 DU	Duplicate	Total/NA	Water	180.1	

Analysis Batch: 733529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	SM 2540F	
MB 460-733529/1	Method Blank	Total/NA	Water	SM 2540F	

Analysis Batch: 734119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	SM 2540D	
MB 460-734119/1	Method Blank	Total/NA	Water	SM 2540D	
LCSSRM 460-734119/2	Lab Control Sample	Total/NA	Water	SM 2540D	
460-220787-B-1 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 734210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	SM 2540C	
MB 460-734210/1	Method Blank	Total/NA	Water	SM 2540C	
LCSSRM 460-734210/2	Lab Control Sample	Total/NA	Water	SM 2540C	
460-221019-AB-19 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 734247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	1664A	
MB 460-734247/1	Method Blank	Total/NA	Water	1664A	
LCS 460-734247/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 460-734247/3	Lab Control Sample Dup	Total/NA	Water	1664A	
460-221019-AG-1 MS	Matrix Spike	Total/NA	Water	1664A	

Analysis Batch: 734652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	SM 4500 H+ B	
MB 460-734652/2	Method Blank	Total/NA	Water	SM 4500 H+ B	
LCSSRM 460-734652/3	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
460-221026-L-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221020-1
Project/Site: EMGPRP-31097

General Chemistry

Prep Batch: 734865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	Distill/Phenol	
MB 460-734865/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 460-734865/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 734914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	420.1	734865
MB 460-734865/1-A	Method Blank	Total/NA	Water	420.1	734865
LCS 460-734865/2-A	Lab Control Sample	Total/NA	Water	420.1	734865
MRL 460-734914/11	Lab Control Sample	Total/NA	Water	420.1	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-1

Client Sample ID: ORS-INFLUENT

Date Collected: 10/20/20 09:30
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221020-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	733802	10/22/20 15:58	EMM	TAL EDI
Total/NA	Analysis	8260D		1	733766	10/22/20 17:18	CJM	TAL EDI
Total/NA	Prep	625			733828	10/22/20 09:55	RPC	TAL EDI
Total/NA	Analysis	625.1		1	733989	10/23/20 03:20	MME	TAL EDI
Total/NA	Analysis	8015D		5	733515	10/22/20 08:33	EMM	TAL EDI
Total/NA	Prep	3510C			733549	10/21/20 14:39	ATF	TAL EDI
Total/NA	Analysis	8015D		1	733316	10/22/20 07:49	KMH	TAL EDI
Total/NA	Analysis	300.0		10	734884	10/26/20 01:08	CDC	TAL EDI
Total Recoverable	Prep	200.8			734126	10/23/20 07:07	GMC	TAL EDI
Total Recoverable	Analysis	200.8		1	734901	10/26/20 11:34	MDC	TAL EDI
Total Recoverable	Prep	200.8			734126	10/23/20 07:07	GMC	TAL EDI
Total Recoverable	Analysis	200.8		1	734828	10/23/20 23:36	VAD	TAL EDI
Total/NA	Prep	245.1			733869	10/22/20 12:16	RBS	TAL EDI
Total/NA	Analysis	245.1		1	733935	10/22/20 13:46	RBS	TAL EDI
Total/NA	Analysis	1664A		1	734247	10/23/20 15:16	AAA	TAL EDI
Total/NA	Analysis	180.1		2	733528	10/21/20 14:15	VBG	TAL EDI
Total/NA	Prep	Distill/Phenol			734865	10/26/20 10:34	RAK	TAL EDI
Total/NA	Analysis	420.1		1	734914	10/26/20 13:18	HTV	TAL EDI
Total/NA	Analysis	SM 2540C		1	734210	10/23/20 11:39	PLS	TAL EDI
Total/NA	Analysis	SM 2540D		1	734119	10/23/20 07:10	AAP	TAL EDI
Total/NA	Analysis	SM 2540F		1	733529	10/21/20 10:00	VBG	TAL EDI
Total/NA	Analysis	SM 4500 H+ B		1	734652	10/25/20 13:30	AAP	TAL EDI

Client Sample ID: QAQC_TB

Date Collected: 10/20/20 09:30
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221020-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	734016	10/23/20 00:14	EMM	TAL EDI
Total/NA	Analysis	8260D		1	733766	10/22/20 11:00	CJM	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221020-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

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
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	4-Methyl-2-pentanone (MIBK)
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Diisopropyl ether
624.1		Water	Ethyl acetate
624.1		Water	Hexachlorobutadiene
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	sec-Butylbenzene
624.1		Water	tert-Butylbenzene
625.1	625	Water	1,1'-Biphenyl
625.1	625	Water	1,2,4,5-Tetrachlorobenzene
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
625.1	625	Water	1,4-Dioxane

Laboratory: Eurofins TestAmerica, Edison (Continued)

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

625.1	625	Water	1-Methylnaphthalene
625.1	625	Water	2,3,4,6-Tetrachlorophenol
625.1	625	Water	2-Methylnaphthalene
625.1	625	Water	2-Nitroaniline
625.1	625	Water	3-Nitroaniline
625.1	625	Water	4-Chloroaniline
625.1	625	Water	4-Nitroaniline
625.1	625	Water	Benzoic acid
625.1	625	Water	Benzyl alcohol
625.1	625	Water	Dibenzofuran
625.1	625	Water	Diphenyl ether
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221020-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL EDI
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL EDI
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
200.8	Metals (ICP/MS)	EPA	TAL EDI
245.1	Mercury (CVAA)	EPA	TAL EDI
1664A	HEM and SGT-HEM	1664A	TAL EDI
180.1	Turbidity, Nephelometric	MCAWW	TAL EDI
420.1	Phenolics, Total Recoverable	MCAWW	TAL EDI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL EDI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL EDI
SM 2540F	Solids, Settleable	SM	TAL EDI
SM 4500 H+ B	pH	SM	TAL EDI
200.8	Preparation, Total Recoverable Metals	EPA	TAL EDI
245.1	Preparation, Mercury	EPA	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
625	Liquid-Liquid Extraction	40CFR136A	TAL EDI
Distill/Phenol	Distillation, Phenolics	None	TAL EDI

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-221020-1	ORS-INFLUENT	Water	10/20/20 09:30	10/20/20 18:00	
460-221020-2	QAQC_TB	Water	10/20/20 09:30	10/20/20 18:00	

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: DK	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-130510-84480.1
Client Contact: Matthew Mueller	Phone:	E-Mail: Melissa.Haas@Eurofinset.com		Page: Page 1 of 1
Company: Roux Environmental Eng & Geology DPC				Job #: 221020
Address: 209 Shafter St	Due Date Requested:			
City: Islandia	TAT Requested (days): 5 Day (See comments)			
State, Zip: NY, 11749				
Phone: 716-472-2725(Tel)	PO #: 0172.0030Y060			
Email: mmueller@rouxinc.com	WO #:			
Project Name: EMGPRP-31097	Project #: 46032869			
Analysis Group: Annual Performance Sampling	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Volatile Organic Compounds Method:624.1_PREC	Volatile Organic Compounds (MEK, MTBE, Acetone) Method: 8260C	GRO Method: 8015D_GRO	ORO/DRO Method: 8015D-DRO	Semivolatile Organic Compounds Method: 625.1_PREC	Metals (TAL) Method: 200.8	Mercury Method: 245.1	Langalier Index Method: 203	Anions, Ion Chromatography Method: 300_ORGFM_28D	Nitrogen, Total Kjeldahl Method: 351.2	Nitrogen, Nitrate-Nitrite Method: 353.2	Phosphorus Method: 4500_P_E	Phenolics, Total Recoverable Method: 420.1	HEM and SGT-HEM Method: 1664A_NP	pH Method: SM4500_H+	COD Method: 410.3	Turbidity, Nephelometric Method: 180.1	Alkalinity Method: 2320B	Hardness, Total (mg/l as CaCO3) Method: 2340C	Conductivity, Specific Conductance Method: 2510B	Solids, Total Dissolved (TDS) Method: 2540C	Solids, Total Suspended (TSS) Method: 2540D	Solids, Settleable Method: SM2540F	BOD, 5-Day Method: 5210B	Dissolved Gases (GC) (Methane, Ethane, Ethene) Method: RSK_175	Organochlorine Pesticides in Water Method: 608.3_PREC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	N	N	D	D	N	N	S	N	S	S	A	N	S	N	N	N	N	N	N	N	N	A	N		
ORS-INFLUENT	10/20/20	9:30	G	W	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	33	Methods 203, 351.2, 353.2, 4500_P_E, 410.3, 2320B, 2340C, 2510B, 5210B, RSK_175, 608.3_PREC to be reported separately (10 Day TAT) 1 Field Temp: 17.01°C Field pH: 7.47
QAQC_TB	10/9/20	N/A	N/A	W			X	X																										Trip Blank 2

460-221020 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify): Level 2, EDD (EQuIS and Excel)	Special Instructions/QC Requirements: **NOTE SHORT HOLDS**

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Natalie B.	Date/Time: 10/20/2020 16:00	Company: Roux	Received by: Lauren	Date/Time: 10/20/20 1600	Company:		
Relinquished by: Lauren	Date/Time: 10/20/20 1800	Company:	Received by: [signature]	Date/Time: 10/20/20 1800	Company: TA Edi		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 102309		Cooler Temperature(s) °C and Other Remarks: IR11 4.9°C				

Ver: 01/16/2019

10/27/2020

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 221020

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	4.9 °C	°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1		22		22				22		22			22		

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

**Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: Lomel **Date:** 10 20 20

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-221020-1

Login Number: 221020
List Number: 1
Creator: Rivera, Kenneth

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	002309
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-221020-2
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

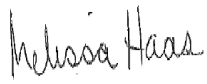
Attn: Matthew Mueller

Melissa Haas

Authorized for release by:
10/29/2020 2:11:39 PM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/29/2020 2:11:39 PM

Table of Contents

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221020-2
Project/Site: EMGPRP-31097

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 460-221020-2

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: EMGPRP-31097

Report Number: 460-221020-2

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 10/20/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.9 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions

Per laboratory policy the Trip Blank sample date/time was changed to reflect the latest sample date/time of the sampling event. QAQC_TB (460-221020-2)

Field temperature/pH data was provided by the client.

DISSOLVED GASES
Sample ORS-INFLUENT (460-221020-1) was analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/27/2020.

The following sample was diluted to bring the concentration of target analytes within the calibration range: ORS-INFLUENT (460-221020-1). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the dissolved gases analysis.

All quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES AND POLYCHLORINATED BIPHENYLS BY GAS CHROMATOGRAPHY
Sample ORS-INFLUENT (460-221020-1) was analyzed for Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography in accordance with 608.3. The samples were prepared on 10/21/2020 and analyzed on 10/22/2020.

Job ID: 460-221020-2 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-733553 and analytical batch 460-733527 recovered outside control limits for the following analytes: Endrin ketone. These analytes were biased high in the LCS and LCSD and were not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the Pesticides/PCBs analysis.

All other quality control parameters were within the acceptance limits.

LANGLIER INDEX
Sample ORS-INFLUENT (460-221020-1) was analyzed for Langlier Index in accordance with SM203. The samples were analyzed on 10/26/2020.

No difficulties were encountered during the Langlier Index analysis.

All quality control parameters were within the acceptance limits.

ALKALINITY
Sample ORS-INFLUENT (460-221020-1) was analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 10/21/2020.

No difficulties were encountered during the alkalinity analysis.

All quality control parameters were within the acceptance limits.

HARDNESS
Sample ORS-INFLUENT (460-221020-1) was analyzed for hardness in accordance with SM 2340C. The samples were analyzed on 10/24/2020.

No difficulties were encountered during the hardness analysis.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTANCE
Sample ORS-INFLUENT (460-221020-1) was analyzed for specific conductance in accordance with SM 2510B. The samples were analyzed on 10/21/2020.

No difficulties were encountered during the specific conductance analysis.

All quality control parameters were within the acceptance limits.

TOTAL KJELDAHL NITROGEN
Sample ORS-INFLUENT (460-221020-1) was analyzed for total kjeldahl nitrogen in accordance with EPA Method 351.2. The samples were prepared on 10/26/2020 and analyzed on 10/27/2020.

No difficulties were encountered during the TKN analysis.

All quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN
Sample ORS-INFLUENT (460-221020-1) was analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 10/21/2020.

Nitrate as N and Nitrate Nitrite as N failed the recovery criteria low for the MS of sample 460-221019-1 in batch 460-733675.

Nitrate as N and Nitrate Nitrite as N failed the recovery criteria low for the MSD of sample 460-221019-1 in batch 460-733675.

Job ID: 460-221020-2 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

Nitrate as N and Nitrate Nitrite as N failed the recovery criteria low for the MS of sample 460-221019-15 in batch 460-733675.

Nitrate as N failed the recovery criteria low for the MSD of sample 460-221019-15 in batch 460-733675.

Refer to the QC report for details.

No other difficulties were encountered during the nitrate-nitrite analysis.

All other quality control parameters were within the acceptance limits.

CHEMICAL OXYGEN DEMAND
Sample ORS-INFLUENT (460-221020-1) was analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were analyzed on 10/21/2020.

No difficulties were encountered during the COD analysis.

All quality control parameters were within the acceptance limits.

PHOSPHORUS AS P
Sample ORS-INFLUENT (460-221020-1) was analyzed for phosphorus as P in accordance with SM 4500 P E. The samples were prepared and analyzed on 10/25/2020.

No difficulties were encountered during the phosphorus analysis.

All quality control parameters were within the acceptance limits.

BIOCHEMICAL OXYGEN DEMAND 5 DAY
Sample ORS-INFLUENT (460-221020-1) was analyzed for Biochemical Oxygen Demand 5 Day in accordance with SM 5210B. The samples were analyzed on 10/21/2020.

No difficulties were encountered during the BOD5 analysis.

All quality control parameters were within the acceptance limits.

FIELD TEMPERATURE
Sample ORS-INFLUENT (460-221020-1) was analyzed for field Temperature by the client.

FIELD PH
Sample ORS-INFLUENT (460-221020-1) was analyzed for field pH by the client.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221020-2
Project/Site: EMGPRP-31097

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 460-221020-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane - DL	1800		88	22	ug/L	22		RSK-175	Total/NA
Langelier Index	0.53				LangSU	1		203	Total/NA
Total Kjeldahl Nitrogen	990		200	180	ug/L	1		351.2	Total/NA
Nitrate as N	970		100	16	ug/L	1		353.2	Total/NA
Nitrate Nitrite as N	1000		100	22	ug/L	1		353.2	Total/NA
Nitrite as N	35	J	100	10	ug/L	1		353.2	Total/NA
Chemical Oxygen Demand	11000		10000	3300	ug/L	1		410.4	Total/NA
Total Alkalinity	380000		5000	5000	ug/L	1		SM 2320B	Total/NA
Hardness as calcium carbonate	580000		25000	25000	ug/L	1		SM 2340C	Total/NA
Specific Conductance	2900		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA
Phosphorus as P	37		30	23	ug/L	1		SM 4500 P E	Total/NA
Biochemical Oxygen Demand	2800		1000	1000	ug/L	1		SM 5210B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 460-221020-1

Date Collected: 10/20/20 09:30
Matrix: Water
Date Received: 10/20/20 18:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/27/20 10:04	1
Ethene	ND		7.0	1.5	ug/L			10/27/20 10:04	1

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**1800**		88	22	ug/L			10/27/20 11:00	22

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.040	0.0040	ug/L		10/21/20 14:44	10/22/20 08:39	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/21/20 14:44	10/22/20 08:39	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 08:39	1
Aldrin	ND		0.020	0.0030	ug/L		10/21/20 14:44	10/22/20 08:39	1
alpha-BHC	ND		0.020	0.013	ug/L		10/21/20 14:44	10/22/20 08:39	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 08:39	1
beta-BHC	ND		0.030	0.013	ug/L		10/21/20 14:44	10/22/20 08:39	1
Chlordane	ND		0.50	0.22	ug/L		10/21/20 14:44	10/22/20 08:39	1
delta-BHC	ND		0.020	0.0020	ug/L		10/21/20 14:44	10/22/20 08:39	1
Dieldrin	ND		0.020	0.0080	ug/L		10/21/20 14:44	10/22/20 08:39	1
Endosulfan I	ND		0.030	0.023	ug/L		10/21/20 14:44	10/22/20 08:39	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 08:39	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 08:39	1
Endrin	ND		0.030	0.025	ug/L		10/21/20 14:44	10/22/20 08:39	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 08:39	1
Endrin ketone	ND		0.030	0.014	ug/L		10/21/20 14:44	10/22/20 08:39	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 08:39	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/21/20 14:44	10/22/20 08:39	1
Heptachlor	ND		0.030	0.0080	ug/L		10/21/20 14:44	10/22/20 08:39	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 08:39	1
Methoxychlor	ND		0.040	0.036	ug/L		10/21/20 14:44	10/22/20 08:39	1
Toxaphene	ND		0.50	0.035	ug/L		10/21/20 14:44	10/22/20 08:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*10 - 150*	*10/21/20 14:44*	*10/22/20 08:39*	*1*
DCB Decachlorobiphenyl	*94*		*10 - 150*	*10/21/20 14:44*	*10/22/20 08:39*	*1*
Tetrachloro-m-xylene	*95*		*10 - 150*	*10/21/20 14:44*	*10/22/20 08:39*	*1*
Tetrachloro-m-xylene	*96*		*10 - 150*	*10/21/20 14:44*	*10/22/20 08:39*	*1*

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Langelier Index	**0.53**				LangSU			10/26/20 15:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	**990**		200	180	ug/L		10/26/20 10:20	10/27/20 09:41	1
Nitrate as N	**970**		100	16	ug/L			10/21/20 16:36	1
Nitrate Nitrite as N	**1000**		100	22	ug/L			10/21/20 16:36	1
Nitrite as N	**35**	**J**	100	10	ug/L			10/21/20 16:36	1
Chemical Oxygen Demand	**11000**		10000	3300	ug/L			10/21/20 16:12	1
Phosphorus as P	**37**		30	23	ug/L		10/25/20 11:30	10/25/20 14:00	1
Biochemical Oxygen Demand	**2800**		1000	1000	ug/L			10/21/20 09:09	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221020-2
Project/Site: EMGPRP-31097

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 460-221020-1

Date Collected: 10/20/20 09:30
Matrix: Water
Date Received: 10/20/20 18:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	380000		5000	5000	ug/L			10/21/20 17:44	1
Hardness as calcium carbonate	580000		25000	25000	ug/L			10/24/20 14:04	1
Specific Conductance	2900		1.0	1.0	umhos/cm			10/21/20 14:30	1

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-2

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(10-150)	(10-150)
460-221020-1	ORS-INFLUENT	94	91	96	95
LCS 460-733553/2-A	Lab Control Sample	91	87	89	87
LCSD 460-733553/3-A	Lab Control Sample Dup	92	90	90	89
MB 460-733553/1-A	Method Blank	125	85	89	84

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-555871/3
Matrix: Water
Analysis Batch: 555871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/27/20 06:55	1
Ethene	ND		7.0	1.5	ug/L			10/27/20 06:55	1
Methane	ND		4.0	1.0	ug/L			10/27/20 06:55	1

Lab Sample ID: LCS 480-555871/4
Matrix: Water
Analysis Batch: 555871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	34.9		ug/L		95	79 - 120
Ethene	33.7	34.7		ug/L		103	85 - 120
Methane	19.2	18.1		ug/L		94	85 - 120

Lab Sample ID: LCSD 480-555871/5
Matrix: Water
Analysis Batch: 555871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	36.8	37.3		ug/L		101	79 - 120	7	50
Ethene	33.7	33.9		ug/L		100	85 - 120	2	50
Methane	19.2	19.3		ug/L		100	85 - 120	6	50

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Lab Sample ID: MB 460-733553/1-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.040	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
4,4'-DDD	ND		0.040	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/21/20 14:44	10/22/20 11:55	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/21/20 14:44	10/22/20 11:55	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
Aldrin	ND		0.020	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
Aldrin	ND		0.020	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
alpha-BHC	ND		0.020	0.013	ug/L		10/21/20 14:44	10/22/20 11:55	1
alpha-BHC	ND		0.020	0.013	ug/L		10/21/20 14:44	10/22/20 11:55	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
beta-BHC	ND		0.030	0.013	ug/L		10/21/20 14:44	10/22/20 11:55	1
beta-BHC	ND		0.030	0.013	ug/L		10/21/20 14:44	10/22/20 11:55	1
Chlordane	ND		0.50	0.22	ug/L		10/21/20 14:44	10/22/20 11:55	1
Chlordane	ND		0.50	0.22	ug/L		10/21/20 14:44	10/22/20 11:55	1
delta-BHC	ND		0.020	0.0020	ug/L		10/21/20 14:44	10/22/20 11:55	1
delta-BHC	ND		0.020	0.0020	ug/L		10/21/20 14:44	10/22/20 11:55	1
Dieldrin	ND		0.020	0.0080	ug/L		10/21/20 14:44	10/22/20 11:55	1
Dieldrin	ND		0.020	0.0080	ug/L		10/21/20 14:44	10/22/20 11:55	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: MB 460-733553/1-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.030	0.023	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endosulfan I	ND		0.030	0.023	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin	ND		0.030	0.025	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin	ND		0.030	0.025	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin ketone	ND		0.030	0.014	ug/L		10/21/20 14:44	10/22/20 11:55	1
Endrin ketone	ND		0.030	0.014	ug/L		10/21/20 14:44	10/22/20 11:55	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/21/20 14:44	10/22/20 11:55	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/21/20 14:44	10/22/20 11:55	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/21/20 14:44	10/22/20 11:55	1
Heptachlor	ND		0.030	0.0080	ug/L		10/21/20 14:44	10/22/20 11:55	1
Heptachlor	ND		0.030	0.0080	ug/L		10/21/20 14:44	10/22/20 11:55	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/21/20 14:44	10/22/20 11:55	1
Methoxychlor	ND		0.040	0.036	ug/L		10/21/20 14:44	10/22/20 11:55	1
Methoxychlor	ND		0.040	0.036	ug/L		10/21/20 14:44	10/22/20 11:55	1
Toxaphene	ND		0.50	0.035	ug/L		10/21/20 14:44	10/22/20 11:55	1
Toxaphene	ND		0.50	0.035	ug/L		10/21/20 14:44	10/22/20 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*10 - 150*	*10/21/20 14:44*	*10/22/20 11:55*	*1*
DCB Decachlorobiphenyl	*125*		*10 - 150*	*10/21/20 14:44*	*10/22/20 11:55*	*1*
Tetrachloro-m-xylene	*84*		*10 - 150*	*10/21/20 14:44*	*10/22/20 11:55*	*1*
Tetrachloro-m-xylene	*89*		*10 - 150*	*10/21/20 14:44*	*10/22/20 11:55*	*1*

Lab Sample ID: LCS 460-733553/2-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.800	0.895		ug/L		112	31 - 141
4,4'-DDD	0.800	0.957		ug/L		120	31 - 141
4,4'-DDE	0.800	0.910		ug/L		114	30 - 145
4,4'-DDE	0.800	0.979		ug/L		122	30 - 145
4,4'-DDT	0.800	0.887		ug/L		111	25 - 160
4,4'-DDT	0.800	0.932		ug/L		116	25 - 160
Aldrin	0.800	1.03		ug/L		128	42 - 140
Aldrin	0.800	0.960		ug/L		120	42 - 140
alpha-BHC	0.800	0.953		ug/L		119	37 - 140
alpha-BHC	0.800	0.955		ug/L		119	37 - 140
alpha-Chlordane	0.800	0.807		ug/L		101	45 - 140
alpha-Chlordane	0.800	0.953		ug/L		119	45 - 140

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCS 460-733553/2-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	0.800	0.866		ug/L		108	17 - 147
beta-BHC	0.800	0.887		ug/L		111	17 - 147
delta-BHC	0.800	1.02		ug/L		127	19 - 140
delta-BHC	0.800	1.01		ug/L		126	19 - 140
Dieldrin	0.800	0.884		ug/L		110	36 - 146
Dieldrin	0.800	0.908		ug/L		113	36 - 146
Endosulfan I	0.800	0.954		ug/L		119	45 - 153
Endosulfan I	0.800	0.973		ug/L		122	45 - 153
Endosulfan II	0.800	0.886		ug/L		111	0.1 - 202
Endosulfan II	0.800	0.900		ug/L		112	0.1 - 202
Endosulfan sulfate	0.800	0.912		ug/L		114	26 - 144
Endosulfan sulfate	0.800	1.11		ug/L		139	26 - 144
Endrin	0.800	0.912		ug/L		114	30 - 147
Endrin	0.800	0.907		ug/L		113	30 - 147
Endrin aldehyde	0.800	0.859		ug/L		107	60 - 150
Endrin aldehyde	0.800	0.838		ug/L		105	60 - 150
Endrin ketone	0.800	1.34	*	ug/L		168	17 - 150
Endrin ketone	0.800	0.883		ug/L		110	17 - 150
gamma-BHC (Lindane)	0.800	0.964		ug/L		121	32 - 140
gamma-BHC (Lindane)	0.800	0.934		ug/L		117	32 - 140
gamma-Chlordane	0.800	0.883		ug/L		110	45 - 140
gamma-Chlordane	0.800	0.940		ug/L		118	45 - 140
Heptachlor	0.800	0.807		ug/L		101	34 - 140
Heptachlor	0.800	0.845		ug/L		106	34 - 140
Heptachlor epoxide	0.800	0.898		ug/L		112	37 - 142
Heptachlor epoxide	0.800	0.926		ug/L		116	37 - 142
Methoxychlor	0.800	0.760		ug/L		95	64 - 150
Methoxychlor	0.800	0.765		ug/L		96	64 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*87*		*10 - 150*
DCB Decachlorobiphenyl	*91*		*10 - 150*
Tetrachloro-m-xylene	*87*		*10 - 150*
Tetrachloro-m-xylene	*89*		*10 - 150*

Lab Sample ID: LCSD 460-733553/3-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 733553

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.800	0.921		ug/L		115	31 - 141	NaN	39
4,4'-DDD	0.800	0.967		ug/L		121	31 - 141	NaN	39
4,4'-DDE	0.800	0.943		ug/L		118	30 - 145	NaN	35
4,4'-DDE	0.800	0.992		ug/L		124	30 - 145	NaN	35
4,4'-DDT	0.800	0.917		ug/L		115	25 - 160	NaN	32
4,4'-DDT	0.800	0.952		ug/L		119	25 - 160	NaN	32
Aldrin	0.800	1.06		ug/L		133	42 - 140	NaN	35
Aldrin	0.800	0.966		ug/L		121	42 - 140	NaN	35

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCSD 460-733553/3-A
Matrix: Water
Analysis Batch: 733527

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 733553

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC			0.800	0.984		ug/L		123	37 - 140	NaN	36
alpha-BHC			0.800	0.972		ug/L		122	37 - 140	NaN	36
alpha-Chlordane			0.800	0.863		ug/L		108	45 - 140	NaN	35
alpha-Chlordane			0.800	0.967		ug/L		121	45 - 140	NaN	35
beta-BHC			0.800	0.897		ug/L		112	17 - 147	NaN	44
beta-BHC			0.800	0.909		ug/L		114	17 - 147	NaN	44
delta-BHC			0.800	1.04		ug/L		130	19 - 140	NaN	52
delta-BHC			0.800	1.02		ug/L		128	19 - 140	NaN	52
Dieldrin			0.800	0.914		ug/L		114	36 - 146	NaN	49
Dieldrin			0.800	0.924		ug/L		116	36 - 146	NaN	49
Endosulfan I			0.800	0.948		ug/L		119	45 - 153	NaN	28
Endosulfan I			0.800	0.993		ug/L		124	45 - 153	NaN	28
Endosulfan II			0.800	0.925		ug/L		116	0.1 - 202	NaN	53
Endosulfan II			0.800	0.918		ug/L		115	0.1 - 202	NaN	53
Endosulfan sulfate			0.800	0.955		ug/L		119	26 - 144	NaN	38
Endosulfan sulfate			0.800	1.15		ug/L		144	26 - 144	NaN	38
Endrin			0.800	0.939		ug/L		117	30 - 147	NaN	48
Endrin			0.800	0.925		ug/L		116	30 - 147	NaN	48
Endrin aldehyde			0.800	0.902		ug/L		113	60 - 150	NaN	40
Endrin aldehyde			0.800	0.865		ug/L		108	60 - 150	NaN	40
Endrin ketone			0.800	1.40	*	ug/L		175	17 - 150	NaN	40
Endrin ketone			0.800	0.916		ug/L		114	17 - 150	NaN	40
gamma-BHC (Lindane)			0.800	0.995		ug/L		124	32 - 140	NaN	39
gamma-BHC (Lindane)			0.800	0.945		ug/L		118	32 - 140	NaN	39
gamma-Chlordane			0.800	0.915		ug/L		114	45 - 140	NaN	35
gamma-Chlordane			0.800	0.953		ug/L		119	45 - 140	NaN	35
Heptachlor			0.800	0.822		ug/L		103	34 - 140	NaN	43
Heptachlor			0.800	0.853		ug/L		107	34 - 140	NaN	43
Heptachlor epoxide			0.800	0.929		ug/L		116	37 - 142	NaN	26
Heptachlor epoxide			0.800	0.939		ug/L		117	37 - 142	NaN	26
Methoxychlor			0.800	0.792		ug/L		99	64 - 150	NaN	40
Methoxychlor			0.800	0.779		ug/L		97	64 - 150	NaN	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*10 - 150*
DCB Decachlorobiphenyl	*92*		*10 - 150*
Tetrachloro-m-xylene	*89*		*10 - 150*
Tetrachloro-m-xylene	*90*		*10 - 150*

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-555747/1-A
Matrix: Water
Analysis Batch: 555955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		200	180	ug/L		10/26/20 10:20	10/27/20 07:30	1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 480-555747/2-A
Matrix: Water
Analysis Batch: 555955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2500	2400		ug/L		96	90 - 110

Lab Sample ID: 460-221020-1 MS
Matrix: Water
Analysis Batch: 555955

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA
Prep Batch: 555747

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	990		1000	2070		ug/L		108	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 460-733610/14
Matrix: Water
Analysis Batch: 733610

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		100	16	ug/L			10/21/20 16:25	1
Nitrate Nitrite as N	ND		100	22	ug/L			10/21/20 16:25	1
Nitrite as N	ND		100	10	ug/L			10/21/20 16:25	1

Lab Sample ID: LCSSRM 460-733610/16
Matrix: Water
Analysis Batch: 733610

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	720	707		ug/L		98.2	77.8 - 120.8

Lab Sample ID: MB 460-733675/14
Matrix: Water
Analysis Batch: 733675

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		100	16	ug/L			10/21/20 19:50	1
Nitrate Nitrite as N	ND		100	22	ug/L			10/21/20 19:50	1
Nitrite as N	ND		100	10	ug/L			10/21/20 19:50	1

Lab Sample ID: 460-221019-N-1 MS
Matrix: Water
Analysis Batch: 733675

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	38	J F1	500	419	F1	ug/L		76	85 - 115
Nitrate Nitrite as N	76	J F1	1000	861	F1	ug/L		78	85 - 115
Nitrite as N	38	J	500	442		ug/L		81	79 - 121

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 460-221019-N-1 MSD
Matrix: Water
Analysis Batch: 733675

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	38	J F1	500	417	F1	ug/L		76	85 - 115	0	18
Nitrate Nitrite as N	76	J F1	1000	857	F1	ug/L		78	85 - 115	0	10
Nitrite as N	38	J	500	440		ug/L		81	79 - 121	0	10

Lab Sample ID: 460-221019-N-15 MS
Matrix: Water
Analysis Batch: 733675

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	290	F1	500	576	F1	ug/L		58	85 - 115
Nitrate Nitrite as N	330	F1	1000	1170	F1	ug/L		84	85 - 115
Nitrite as N	45	J	500	594		ug/L		110	79 - 121

Lab Sample ID: 460-221019-N-15 MSD
Matrix: Water
Analysis Batch: 733675

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	290	F1	500	585	F1	ug/L		60	85 - 115	2	18
Nitrate Nitrite as N	330	F1	1000	1180		ug/L		85	85 - 115	1	10
Nitrite as N	45	J	500	595		ug/L		110	79 - 121	0	10

Method: 410.4 - COD

Lab Sample ID: MB 460-733587/31
Matrix: Water
Analysis Batch: 733587

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10000	3300	ug/L			10/21/20 16:12	1

Lab Sample ID: LCSSRM 460-733587/32
Matrix: Water
Analysis Batch: 733587

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	117000	113000		ug/L		96.7	77.2 - 118.8

Lab Sample ID: 460-220678-B-1 MS
Matrix: Water
Analysis Batch: 733587

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		50000	49500		ug/L		99	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: 460-220678-B-1 MSD
Matrix: Water
Analysis Batch: 733587

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		50000	50600		ug/L		101	90 - 110	2	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 460-733854/25
Matrix: Water
Analysis Batch: 733854

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5000	5000	ug/L			10/21/20 15:10	1

Lab Sample ID: LCSSRM 460-733854/26
Matrix: Water
Analysis Batch: 733854

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Alkalinity			66800	65000		ug/L		97.3	85.0 - 115.0		

Lab Sample ID: 460-220998-E-1 DU
Matrix: Water
Analysis Batch: 733854

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	620000			623000		ug/L				0.2	10

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 460-734493/1
Matrix: Water
Analysis Batch: 734493

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		5000	5000	ug/L			10/24/20 14:04	1

Lab Sample ID: LCSSRM 460-734493/2
Matrix: Water
Analysis Batch: 734493

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Hardness as calcium carbonate			370000	380000		ug/L		102.7	85.1 - 115.1		

Lab Sample ID: 460-221019-T-1 DU
Matrix: Water
Analysis Batch: 734493

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Hardness as calcium carbonate	570000			570000		ug/L				0	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 460-733599/8
Matrix: Water
Analysis Batch: 733599

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			10/21/20 14:30	1

Lab Sample ID: LCSSRM 460-733599/9
Matrix: Water
Analysis Batch: 733599

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Specific Conductance			691	711		umhos/cm		102.9	90.0 - 110.1		

Lab Sample ID: 460-220533-C-1 DU
Matrix: Water
Analysis Batch: 733599

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	630			636		umhos/cm				0.3	2

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 460-734683/4-A
Matrix: Water
Analysis Batch: 734690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	ND		30	23	ug/L		10/25/20 11:30	10/25/20 14:00	1

Lab Sample ID: LCSSRM 460-734683/5-A
Matrix: Water
Analysis Batch: 734690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734683

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Phosphorus as P			197	193		ug/L		98.3	82.4 - 116.5		

Lab Sample ID: MRL 460-734683/3-A
Matrix: Water
Analysis Batch: 734690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734683

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Phosphorus as P			0.0300	0.0263	J	mg/L		88	50 - 150		

Lab Sample ID: 460-221020-1 MS
Matrix: Water
Analysis Batch: 734690

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA
Prep Batch: 734683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phosphorus as P	37		200	239		ug/L		101	90 - 110		

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: 460-221020-1 MSD
Matrix: Water
Analysis Batch: 734690

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA
Prep Batch: 734683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus as P	37		200	238		ug/L		100	90 - 110	1	10

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 460-733493/1
Matrix: Water
Analysis Batch: 733493

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		1000	1000	ug/L			10/21/20 08:00	1

Lab Sample ID: LCS 460-733493/2
Matrix: Water
Analysis Batch: 733493

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Biochemical Oxygen Demand			129000	127000		ug/L		98	84.6 - 115.4		

Lab Sample ID: 460-221009-B-2 DU
Matrix: Water
Analysis Batch: 733493

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	44000			47900		ug/L				8	30

GC VOA

Analysis Batch: 555871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	RSK-175	
460-221020-1 - DL	ORS-INFLUENT	Total/NA	Water	RSK-175	
MB 480-555871/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-555871/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-555871/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

GC Semi VOA

Analysis Batch: 733527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	608.3	733553
MB 460-733553/1-A	Method Blank	Total/NA	Water	608.3	733553
LCS 460-733553/2-A	Lab Control Sample	Total/NA	Water	608.3	733553
LCSD 460-733553/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	733553

Prep Batch: 733553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	608	
MB 460-733553/1-A	Method Blank	Total/NA	Water	608	
LCS 460-733553/2-A	Lab Control Sample	Total/NA	Water	608	
LCSD 460-733553/3-A	Lab Control Sample Dup	Total/NA	Water	608	

General Chemistry

Prep Batch: 555747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	351.2	
MB 480-555747/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-555747/2-A	Lab Control Sample	Total/NA	Water	351.2	
460-221020-1 MS	ORS-INFLUENT	Total/NA	Water	351.2	

Analysis Batch: 555955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	351.2	555747
MB 480-555747/1-A	Method Blank	Total/NA	Water	351.2	555747
LCS 480-555747/2-A	Lab Control Sample	Total/NA	Water	351.2	555747
460-221020-1 MS	ORS-INFLUENT	Total/NA	Water	351.2	555747

Analysis Batch: 732766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	203	

Analysis Batch: 733493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	SM 5210B	
USB 460-733493/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 460-733493/2	Lab Control Sample	Total/NA	Water	SM 5210B	
460-221009-B-2 DU	Duplicate	Total/NA	Water	SM 5210B	

Analysis Batch: 733587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 733587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-733587/31	Method Blank	Total/NA	Water	410.4	
LCSSRM 460-733587/32	Lab Control Sample	Total/NA	Water	410.4	
460-220678-B-1 MS	Matrix Spike	Total/NA	Water	410.4	
460-220678-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Analysis Batch: 733599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	SM 2510B	
MB 460-733599/8	Method Blank	Total/NA	Water	SM 2510B	
LCSSRM 460-733599/9	Lab Control Sample	Total/NA	Water	SM 2510B	
460-220533-C-1 DU	Duplicate	Total/NA	Water	SM 2510B	

Analysis Batch: 733610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	353.2	
MB 460-733610/14	Method Blank	Total/NA	Water	353.2	
LCSSRM 460-733610/16	Lab Control Sample	Total/NA	Water	353.2	
MRL 460-733610/11	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 733675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-733675/14	Method Blank	Total/NA	Water	353.2	
MRL 460-733675/11	Lab Control Sample	Total/NA	Water	353.2	
460-221019-N-1 MS	Matrix Spike	Total/NA	Water	353.2	
460-221019-N-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
460-221019-N-15 MS	Matrix Spike	Total/NA	Water	353.2	
460-221019-N-15 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 733854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	SM 2320B	
MB 460-733854/25	Method Blank	Total/NA	Water	SM 2320B	
LCSSRM 460-733854/26	Lab Control Sample	Total/NA	Water	SM 2320B	
460-220998-E-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 734493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	SM 2340C	
MB 460-734493/1	Method Blank	Total/NA	Water	SM 2340C	
LCSSRM 460-734493/2	Lab Control Sample	Total/NA	Water	SM 2340C	
460-221019-T-1 DU	Duplicate	Total/NA	Water	SM 2340C	

Prep Batch: 734683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	SM 4500 P B	
MB 460-734683/4-A	Method Blank	Total/NA	Water	SM 4500 P B	
LCSSRM 460-734683/5-A	Lab Control Sample	Total/NA	Water	SM 4500 P B	
MRL 460-734683/3-A	Lab Control Sample	Total/NA	Water	SM 4500 P B	
460-221020-1 MS	ORS-INFLUENT	Total/NA	Water	SM 4500 P B	
460-221020-1 MSD	ORS-INFLUENT	Total/NA	Water	SM 4500 P B	

General Chemistry

Analysis Batch: 734690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-221020-1	ORS-INFLUENT	Total/NA	Water	SM 4500 P E	734683
MB 460-734683/4-A	Method Blank	Total/NA	Water	SM 4500 P E	734683
LCSSRM 460-734683/5-A	Lab Control Sample	Total/NA	Water	SM 4500 P E	734683
MRL 460-734683/3-A	Lab Control Sample	Total/NA	Water	SM 4500 P E	734683
460-221020-1 MS	ORS-INFLUENT	Total/NA	Water	SM 4500 P E	734683
460-221020-1 MSD	ORS-INFLUENT	Total/NA	Water	SM 4500 P E	734683

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-2

Client Sample ID: ORS-INFLUENT

Date Collected: 10/20/20 09:30
Date Received: 10/20/20 18:00

Lab Sample ID: 460-221020-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	555871	10/27/20 10:04	MAN	TAL BUF
Total/NA	Analysis	RSK-175	DL	22	555871	10/27/20 11:00	MAN	TAL BUF
Total/NA	Prep	608			733553	10/21/20 14:44	ATF	TAL EDI
Total/NA	Analysis	608.3		1	733527	10/22/20 08:39	SAK	TAL EDI
Total/NA	Analysis	203		1	732766	10/26/20 15:30	TJW	TAL EDI
Total/NA	Prep	351.2			555747	10/26/20 10:20	KEB	TAL BUF
Total/NA	Analysis	351.2		1	555955	10/27/20 09:41	CLT	TAL BUF
Total/NA	Analysis	353.2		1	733610	10/21/20 16:36	VBG	TAL EDI
Total/NA	Analysis	410.4		1	733587	10/21/20 16:12	HTV	TAL EDI
Total/NA	Analysis	SM 2320B		1	733854	10/21/20 17:44	RPR	TAL EDI
Total/NA	Analysis	SM 2340C		1	734493	10/24/20 14:04	HTV	TAL EDI
Total/NA	Analysis	SM 2510B		1	733599	10/21/20 14:30	HTV	TAL EDI
Total/NA	Prep	SM 4500 P B			734683	10/25/20 11:30	HTV	TAL EDI
Total/NA	Analysis	SM 4500 P E		1	734690	10/25/20 14:00	HTV	TAL EDI
Total/NA	Analysis	SM 5210B		1	733493	10/21/20 09:09	PLS	TAL EDI

Laboratory References:

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

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221020-2
Project/Site: EMGPRP-31097

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

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
203		Water	Langelier Index
608.3	608	Water	alpha-Chlordane
608.3	608	Water	Endrin ketone
608.3	608	Water	gamma-Chlordane

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-221020-2
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
608.3	Organochlorine Pesticides/PCBs in Water	40CFR136A	TAL EDI
203	Langelier Index	SM15	TAL EDI
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL EDI
410.4	COD	MCAWW	TAL EDI
SM 2320B	Alkalinity	SM	TAL EDI
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL EDI
SM 2510B	Conductivity, Specific Conductance	SM	TAL EDI
SM 4500 P E	Phosphorus	SM	TAL EDI
SM 5210B	BOD, 5-Day	SM	TAL EDI
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL EDI
SM 4500 P B	Phosphorous, Total and Ortho	SM	TAL EDI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SM = "Standard Methods For The Examination Of Water And Wastewater"

SM15 = "Standard Methods For The Examination Of Water And Wastewater", 15th Edition, 1981.

Laboratory References:

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

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-221020-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-221020-1	ORS-INFLUENT	Water	10/20/20 09:30	10/20/20 18:00	

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: DK	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-130510-84480.1
Client Contact: Matthew Mueller	Phone:	E-Mail: Melissa.Haas@Eurofinset.com		Page: Page 1 of 1
Company: Roux Environmental Eng & Geology DPC				Job #: 221020

Address: 209 Shafter St	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Islandia	TAT Requested (days): 5 Day (See comments)		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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 11749			
Phone: 716-472-2725(Tel)	PO #: 0172.0030Y060		Other:
Email: mmueller@rouxinc.com	WO #:		
Project Name: EMGPRP-31097	Project #: 46032869		
Analysis Group: Annual Performance Sampling	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Volatile Organic Compounds Method:624.1_PREC	Volatile Organic Compounds (MEK, MTBE, Acetone) Method: 8260C	GRO Method: 8015D_GRO	ORO/DRO Method: 8015D-DRO	Semivolatile Organic Compounds Method: 625.1_PREC	Metals (TAL) Method: 200.8	Mercury Method: 245.1	Langalier Index Method: 203	Anions, Ion Chromatography Method: 300_ORGFM_28D	Nitrogen, Total Kjeldahl Method: 351.2	Nitrogen, Nitrate-Nitrite Method: 353.2	Phosphorus Method: 4500_P_E	Phenolics, Total Recoverable Method: 420.1	HEM and SGT-HEM Method: 1664A_NP	pH Method: SM4500_H+	COD Method: 410.3	Turbidity, Nephelometric Method: 180.1	Alkalinity Method: 2320B	Hardness, Total (mg/l as CaCO3) Method: 2340C	Conductivity, Specific Conductance Method: 2510B	Solids, Total Dissolved (TDS) Method: 2540C	Solids, Total Suspended (TSS) Method: 2540D	Solids, Settleable Method: SM2540F	BOD, 5-Day Method: 5210B	Dissolved Gases (GC) (Methane, Ethane, Ethene) Method: RSK_175	Organochlorine Pesticides in Water Method: 608.3_PREC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	N	N	D	D	N	N	S	N	S	S	A	N	S	N	N	N	N	N	N	N	N	N	A	N		
ORS-INFLUENT	10/20/20	9:30	G	W	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	33	Methods 203, 351.2, 353.2, 4500_P_E, 410.3, 2320B, 2340C, 2510B, 5210B, RSK_175, 608.3_PREC to be reported separately (10 Day TAT) 1 Field Temp: 17.01°C Field pH: 7.47
QAQC_TB	10/9/20	N/A	N/A	W			X	X																										Trip Blank 2

460-221020 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify): Level 2, EDD (EQuIS and Excel)	Special Instructions/QC Requirements: **NOTE SHORT HOLDS**

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Natalie B.	10/20/2020 16:00	Roux	Samuel	10/20/20 1600	
Samuel	10/20/20 1800		Dennis Mc	10/20/20 1800	TA Edi

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 102309	Cooler Temperature(s) °C and Other Remarks: IR11 4.9°C

Ver: 01/16/2019

10/29/2020

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 221020

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	4.9 °C	°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1		✓		✓				✓		✓			✓		

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

*Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 4.1
10/22/2019

Initials: [signature] Date: 10 20 20

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-59789.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Melissa.Haas@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-221020-2
Address: 10 Hazelwood Drive, ,	Due Date Requested: 10/30/2020			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: EMGPRP-31097	Project #: 46032869			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	351.2/351.2_Prep Nitrogen, Total Kjeldahl	RSK_175/ Methane, Ethane, Ethene	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
ORS-INFLUENT (460-221020-1)	10/20/20	09:30 Eastern		Water			X	X	4	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/21/20 1900	ETAEdi		10/22/20 1030	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.6#1 ICE

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-221020-2

Login Number: 221020
List Number: 1
Creator: Rivera, Kenneth

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	002309
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-221020-2

Login Number: 221020
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo
List Creation: 10/23/20 09:41 AM

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	3.6 ir gun #1 ice
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.	True	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-220550-1
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

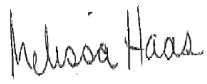
Attn: Matthew Mueller

Melissa Haas

Authorized for release by:
10/23/2020 11:19:21 AM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/23/2020 11:19:21 AM

Table of Contents

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220550-1
Project/Site: EMGPRP-31097

Qualifiers

GC/MS 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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Metals

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

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job ID: 460-220550-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: EMGPRP-31097

Report Number: 460-220550-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/14/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

The samples were received on 10/14/2020 7:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

Receipt Exceptions

Per laboratory policy the trip blank sample date/time was changed to reflect the latest sample date/time of the sampling event. The client confirmed that RSK is not needed for the trip blank.

The following sample was analyzed for COD by method 410.4 due to chloride <1000 mg/L. OUTFALL-01A (460-220550-1)

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Samples OUTFALL-01A (460-220550-1) and QAQC_TB (460-220550-2) were analyzed for Volatile Organic Compounds by GC/MS in accordance with EPA Method 624.1. The samples were analyzed on 10/19/2020.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OUTFALL-01A (460-220550-1) and QAQC_TB (460-220550-2) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 10/16/2020.

Job ID: 460-220550-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)
Sample OUTFALL-01A (460-220550-1) was analyzed for Semivolatile Organic Compounds (GC/MS) in accordance with 625.1. The samples were prepared and analyzed on 10/18/2020.

The continuing calibration verification (CCV) analyzed in batch 460-732730 was outside the method criteria for the following analyte(s): 4,6-Dinitro-2-methylphenol and Benzoic acid. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) for preparation batch 460-732660 and analytical batch 460-732730 recovered outside control limits for the following analytes: Benzoic acid. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the Semivolatile Organic Compounds (GC/MS) analysis.

All other quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS
Sample OUTFALL-01A (460-220550-1) was analyzed for total recoverable metals in accordance with EPA Method 200.8 (ICP/MS). The samples were prepared on 10/15/2020 and analyzed on 10/16/2020.

Calcium and Sodium failed the recovery criteria high for the MS of sample 460-220372-1 in batch 460-732253.

Refer to the QC report for details.

Sample OUTFALL-01A (460-220550-1)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY
Sample OUTFALL-01A (460-220550-1) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared and analyzed on 10/16/2020.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

SILICA GEL TREATED (SGT/PETROLEUM HYDROCARBON) AND N-HEXANE EXTRACTABLE MATERIAL (HEM/OIL&GREASE)
Sample OUTFALL-01A (460-220550-1) was analyzed for Silica Gel Treated (SGT/Petroleum Hydrocarbon) and N-Hexane Extractable Material (HEM/Oil&Grease) in accordance with EPA SW-846 Method 1664A. The samples were analyzed on 10/18/2020.

No difficulties were encountered during the SGT-HEM/HEM analysis.

All quality control parameters were within the acceptance limits.

TURBIDITY
Sample OUTFALL-01A (460-220550-1) was analyzed for turbidity in accordance with EPA Method 180.1 - Nephelometric. The samples were analyzed on 10/15/2020.

Job ID: 460-220550-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

Turbidity was detected in method blank MB 460-731991/10 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the turbidity analysis.

All other quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS

Sample OUTFALL-01A (460-220550-1) was analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 10/20/2020.

Total Dissolved Solids exceeded the RPD limit for the duplicate of sample 460-220548-1. Refer to the QC report for details.

No other difficulties were encountered during the TDS analysis.

All other quality control parameters were within the acceptance limits.

TOTAL SUSPENDED SOLIDS

Sample OUTFALL-01A (460-220550-1) was analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 10/19/2020.

Total Suspended Solids exceeded the RPD limit for the duplicate of sample 460-220835-10. Refer to the QC report for details.

No other difficulties were encountered during the TSS analysis.

All other quality control parameters were within the acceptance limits.

ANIONS

Sample OUTFALL-01A (460-220550-1) was analyzed for anions in accordance with EPA Method 300_ORGFM_28D Anions by Ion Chromatograph. The samples were analyzed on 10/17/2020.

The following sample was diluted to bring the concentration of target analytes within the calibration range: OUTFALL-01A (460-220550-1) at 17.0. Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE PHENOLS

Sample OUTFALL-01A (460-220550-1) was analyzed for total recoverable phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 10/21/2020.

Phenols, Total failed the recovery criteria low for the MS of sample 460-220549-1 in batch 460-733672.

Phenols, Total failed the recovery criteria low for the MSD of sample 460-220549-1 in batch 460-733672.

Refer to the QC report for details.

No other difficulties were encountered during the phenol analysis.

All other quality control parameters were within the acceptance limits.

SETTLEABLE SOLIDS

Sample OUTFALL-01A (460-220550-1) was analyzed for settleable solids in accordance with SM 2540F. The samples were analyzed on

Job ID: 460-220550-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

10/15/2020.

No difficulties were encountered during the settleable solids analysis.

All quality control parameters were within the acceptance limits.

PH

Sample OUTFALL-01A (460-220550-1) was analyzed for pH in accordance with SM 4500 H+. The samples were analyzed on 10/18/2020.

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220550-1
Project/Site: EMGPRP-31097

Client Sample ID: OUTFALL-01A — Lab Sample ID: 460-220550-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Propanol	31		10	5.9	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	0.42	J	1.0	0.22	ug/L	1		624.1	Total/NA
Tetrachloroethene	0.57	J	1.0	0.25	ug/L	1		624.1	Total/NA
Methyl tert-butyl ether	1.6		1.0	0.22	ug/L	1		8260C	Total/NA
Chloride	1000000		5400	660	ug/L	17		300.0	Total/NA
Sulfate	190000		8200	2700	ug/L	17		300.0	Total/NA
Aluminum	16	J	40	11	ug/L	1		200.8	Total Recoverable
Arsenic	1.5	J	2.0	0.61	ug/L	1		200.8	Total Recoverable
Barium	290		4.0	1.0	ug/L	1		200.8	Total Recoverable
Calcium	160000		200	22	ug/L	1		200.8	Total Recoverable
Cobalt	1.4	J	4.0	0.19	ug/L	1		200.8	Total Recoverable
Copper	1.1	J	4.0	1.1	ug/L	1		200.8	Total Recoverable
Iron	600		120	17	ug/L	1		200.8	Total Recoverable
Lead	0.32	J	1.2	0.071	ug/L	1		200.8	Total Recoverable
Magnesium	92000		200	27	ug/L	1		200.8	Total Recoverable
Manganese	2300		8.0	0.75	ug/L	1		200.8	Total Recoverable
Potassium	19000		200	84	ug/L	1		200.8	Total Recoverable
Sodium	600000		1000	99	ug/L	5		200.8	Total Recoverable
Vanadium	0.50	J	4.0	0.24	ug/L	1		200.8	Total Recoverable
Zinc	15	J	16	2.6	ug/L	1		200.8	Total Recoverable
Turbidity	2.8	B	0.50	0.11	NTU	1		180.1	Total/NA
Total Dissolved Solids	3300000		100000	100000	ug/L	1		SM 2540C	Total/NA
pH	8.4	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	21.0	HF	0.1	0.1	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: QAQC_TB — Lab Sample ID: 460-220550-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Propanol	20		10	5.9	ug/L	1		624.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220550-1

Client Sample ID: OUTFALL-01A
Date Collected: 10/14/20 09:10
Date Received: 10/14/20 19:00

Lab Sample ID: 460-220550-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/19/20 17:57	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/19/20 17:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/19/20 17:57	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/19/20 17:57	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/19/20 17:57	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/19/20 17:57	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/19/20 17:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/19/20 17:57	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/19/20 17:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/19/20 17:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/19/20 17:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/19/20 17:57	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/19/20 17:57	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/19/20 17:57	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/19/20 17:57	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			10/19/20 17:57	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/19/20 17:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/19/20 17:57	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/19/20 17:57	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/20 17:57	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/19/20 17:57	1
1,4-Dioxane	ND		50	28	ug/L			10/19/20 17:57	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/19/20 17:57	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/19/20 17:57	1
2-Hexanone	ND		5.0	2.9	ug/L			10/19/20 17:57	1
2-Propanol	**31**		10	5.9	ug/L			10/19/20 17:57	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/19/20 17:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/19/20 17:57	1
Acetonitrile	ND		10	5.0	ug/L			10/19/20 17:57	1
Benzene	ND		1.0	0.43	ug/L			10/19/20 17:57	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/19/20 17:57	1
Bromobenzene	ND		1.0	0.35	ug/L			10/19/20 17:57	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/19/20 17:57	1
Bromoform	ND		1.0	0.54	ug/L			10/19/20 17:57	1
Bromomethane	ND		1.0	0.45	ug/L			10/19/20 17:57	1
Butyl acetate	ND		2.0	0.33	ug/L			10/19/20 17:57	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/19/20 17:57	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/19/20 17:57	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/19/20 17:57	1
Chloroethane	ND		1.0	0.32	ug/L			10/19/20 17:57	1
Chloroform	ND		1.0	0.33	ug/L			10/19/20 17:57	1
Chloromethane	ND		1.0	0.43	ug/L			10/19/20 17:57	1
cis-1,2-Dichloroethene	**0.42**	**J**	1.0	0.22	ug/L			10/19/20 17:57	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/19/20 17:57	1
Cyclohexane	ND		1.0	0.32	ug/L			10/19/20 17:57	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/19/20 17:57	1
Dibromomethane	ND		1.0	0.60	ug/L			10/19/20 17:57	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/19/20 17:57	1
Diisopropyl ether	ND		1.0	0.45	ug/L			10/19/20 17:57	1

Client Sample ID: OUTFALL-01A
Date Collected: 10/14/20 09:10
Date Received: 10/14/20 19:00

Lab Sample ID: 460-220550-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl acetate	ND		2.0	0.73	ug/L			10/19/20 17:57	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/19/20 17:57	1
Freon 113	ND		1.0	0.31	ug/L			10/19/20 17:57	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/19/20 17:57	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/19/20 17:57	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/19/20 17:57	1
Methyl iodide	ND		1.0	0.48	ug/L			10/19/20 17:57	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/19/20 17:57	1
Methylene Chloride	ND		1.0	0.32	ug/L			10/19/20 17:57	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/19/20 17:57	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/19/20 17:57	1
n-Heptane	ND		5.0	0.47	ug/L			10/19/20 17:57	1
n-Hexane	ND		1.0	0.69	ug/L			10/19/20 17:57	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/19/20 17:57	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/19/20 17:57	1
o-Xylene	ND		1.0	0.36	ug/L			10/19/20 17:57	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/19/20 17:57	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/19/20 17:57	1
Styrene	ND		1.0	0.42	ug/L			10/19/20 17:57	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/19/20 17:57	1
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/19/20 17:57	1
Tetrachloroethene	**0.57**	**J**	1.0	0.25	ug/L			10/19/20 17:57	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/19/20 17:57	1
Toluene	ND		1.0	0.38	ug/L			10/19/20 17:57	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/19/20 17:57	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/19/20 17:57	1
Trichloroethene	ND		1.0	0.31	ug/L			10/19/20 17:57	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/19/20 17:57	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/19/20 17:57	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/19/20 17:57	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/19/20 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*		*10/19/20 17:57*	*1*
Bromofluorobenzene	*103*		*60 - 140*		*10/19/20 17:57*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*10/19/20 17:57*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*10/19/20 17:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/16/20 12:01	1
Acetone	ND		5.0	4.4	ug/L			10/16/20 12:01	1
Methyl tert-butyl ether	**1.6**		1.0	0.22	ug/L			10/16/20 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 123*		*10/16/20 12:01*	*1*
4-Bromofluorobenzene	*110*		*76 - 120*		*10/16/20 12:01*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 124*		*10/16/20 12:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/16/20 12:01*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220550-1

Client Sample ID: OUTFALL-01A
Date Collected: 10/14/20 09:10
Date Received: 10/14/20 19:00

Lab Sample ID: 460-220550-1
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 22:38	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 22:38	1
1,2,4-Trichlorobenzene	ND		2.0	1.3	ug/L		10/18/20 09:14	10/18/20 22:38	1
1,2-Dichlorobenzene	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 22:38	1
1,2-Diphenylhydrazine	ND		10	0.37	ug/L		10/18/20 09:14	10/18/20 22:38	1
1,3-Dichlorobenzene	ND		10	2.0	ug/L		10/18/20 09:14	10/18/20 22:38	1
1,4-Dichlorobenzene	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 22:38	1
1,4-Dioxane	ND		10	1.6	ug/L		10/18/20 09:14	10/18/20 22:38	1
1-Methylnaphthalene	ND		4.0	1.1	ug/L		10/18/20 09:14	10/18/20 22:38	1
2,2'-oxybis[1-chloropropane]	ND		10	0.63	ug/L		10/18/20 09:14	10/18/20 22:38	1
2,3,4,6-Tetrachlorophenol	ND		10	0.75	ug/L		10/18/20 09:14	10/18/20 22:38	1
2,4,5-Trichlorophenol	ND		10	0.85	ug/L		10/18/20 09:14	10/18/20 22:38	1
2,4,6-Trichlorophenol	ND		10	0.70	ug/L		10/18/20 09:14	10/18/20 22:38	1
2,4-Dichlorophenol	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 22:38	1
2,4-Dimethylphenol	ND		10	0.66	ug/L		10/18/20 09:14	10/18/20 22:38	1
2,4-Dinitrophenol	ND		20	2.0	ug/L		10/18/20 09:14	10/18/20 22:38	1
2,4-Dinitrotoluene	ND		2.0	1.0	ug/L		10/18/20 09:14	10/18/20 22:38	1
2,6-Dinitrotoluene	ND		2.0	0.53	ug/L		10/18/20 09:14	10/18/20 22:38	1
2-Chloronaphthalene	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 22:38	1
2-Chlorophenol	ND		10	0.38	ug/L		10/18/20 09:14	10/18/20 22:38	1
2-Methylnaphthalene	ND		10	1.1	ug/L		10/18/20 09:14	10/18/20 22:38	1
2-Methylphenol	ND		10	0.67	ug/L		10/18/20 09:14	10/18/20 22:38	1
2-Nitroaniline	ND		10	0.47	ug/L		10/18/20 09:14	10/18/20 22:38	1
2-Nitrophenol	ND		10	0.75	ug/L		10/18/20 09:14	10/18/20 22:38	1
3,3'-Dichlorobenzidine	ND		10	1.6	ug/L		10/18/20 09:14	10/18/20 22:38	1
3-Nitroaniline	ND		10	0.96	ug/L		10/18/20 09:14	10/18/20 22:38	1
4,6-Dinitro-2-methylphenol	ND		20	3.4	ug/L		10/18/20 09:14	10/18/20 22:38	1
4-Bromophenyl phenyl ether	ND		10	0.75	ug/L		10/18/20 09:14	10/18/20 22:38	1
4-Chloro-3-methylphenol	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 22:38	1
4-Chloroaniline	ND		10	1.9	ug/L		10/18/20 09:14	10/18/20 22:38	1
4-Chlorophenyl phenyl ether	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 22:38	1
4-Methylphenol	ND		10	0.76	ug/L		10/18/20 09:14	10/18/20 22:38	1
4-Nitroaniline	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 22:38	1
4-Nitrophenol	ND		20	1.7	ug/L		10/18/20 09:14	10/18/20 22:38	1
Acenaphthene	ND		10	1.1	ug/L		10/18/20 09:14	10/18/20 22:38	1
Acenaphthylene	ND		10	0.82	ug/L		10/18/20 09:14	10/18/20 22:38	1
Acetophenone	ND		10	2.5	ug/L		10/18/20 09:14	10/18/20 22:38	1
Aniline	ND		10	1.1	ug/L		10/18/20 09:14	10/18/20 22:38	1
Anthracene	ND		10	0.63	ug/L		10/18/20 09:14	10/18/20 22:38	1
Benzidine	ND		10	5.9	ug/L		10/18/20 09:14	10/18/20 22:38	1
Benzo[a]anthracene	ND		1.0	0.59	ug/L		10/18/20 09:14	10/18/20 22:38	1
Benzo[a]pyrene	ND		1.0	0.68	ug/L		10/18/20 09:14	10/18/20 22:38	1
Benzo[b]fluoranthene	ND		2.0	1.4	ug/L		10/18/20 09:14	10/18/20 22:38	1
Benzo[g,h,i]perylene	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 22:38	1
Benzo[k]fluoranthene	ND		1.0	0.67	ug/L		10/18/20 09:14	10/18/20 22:38	1
Benzoic acid	ND	*	50	4.6	ug/L		10/18/20 09:14	10/18/20 22:38	1
Benzyl alcohol	ND		10	0.94	ug/L		10/18/20 09:14	10/18/20 22:38	1
Bis(2-chloroethoxy)methane	ND		10	0.64	ug/L		10/18/20 09:14	10/18/20 22:38	1
Bis(2-chloroethyl)ether	ND		1.0	0.69	ug/L		10/18/20 09:14	10/18/20 22:38	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220550-1

Client Sample ID: OUTFALL-01A
Date Collected: 10/14/20 09:10
Date Received: 10/14/20 19:00

Lab Sample ID: 460-220550-1
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		2.0	1.0	ug/L		10/18/20 09:14	10/18/20 22:38	1
Butyl benzyl phthalate	ND		10	0.85	ug/L		10/18/20 09:14	10/18/20 22:38	1
Carbazole	ND		10	0.68	ug/L		10/18/20 09:14	10/18/20 22:38	1
Chrysene	ND		2.0	0.91	ug/L		10/18/20 09:14	10/18/20 22:38	1
Dibenz(a,h)anthracene	ND		1.0	0.74	ug/L		10/18/20 09:14	10/18/20 22:38	1
Dibenzofuran	ND		10	1.1	ug/L		10/18/20 09:14	10/18/20 22:38	1
Diethyl phthalate	ND		10	0.98	ug/L		10/18/20 09:14	10/18/20 22:38	1
Dimethyl phthalate	ND		10	0.77	ug/L		10/18/20 09:14	10/18/20 22:38	1
Di-n-butyl phthalate	ND		10	0.75	ug/L		10/18/20 09:14	10/18/20 22:38	1
Di-n-octyl phthalate	ND		10	1.4	ug/L		10/18/20 09:14	10/18/20 22:38	1
Diphenyl ether	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 22:38	1
Fluoranthene	ND		10	0.84	ug/L		10/18/20 09:14	10/18/20 22:38	1
Fluorene	ND		10	0.91	ug/L		10/18/20 09:14	10/18/20 22:38	1
Hexachlorobenzene	ND		1.0	0.91	ug/L		10/18/20 09:14	10/18/20 22:38	1
Hexachlorobutadiene	ND		1.0	0.44	ug/L		10/18/20 09:14	10/18/20 22:38	1
Hexachlorocyclopentadiene	ND		10	1.7	ug/L		10/18/20 09:14	10/18/20 22:38	1
Hexachloroethane	ND		2.0	1.2	ug/L		10/18/20 09:14	10/18/20 22:38	1
Indeno[1,2,3-cd]pyrene	ND		2.0	1.3	ug/L		10/18/20 09:14	10/18/20 22:38	1
Isophorone	ND		10	0.80	ug/L		10/18/20 09:14	10/18/20 22:38	1
Naphthalene	ND		2.0	1.1	ug/L		10/18/20 09:14	10/18/20 22:38	1
n-Decane	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 22:38	1
Nitrobenzene	ND		2.0	1.6	ug/L		10/18/20 09:14	10/18/20 22:38	1
N-Nitrosodimethylamine	ND		10	1.4	ug/L		10/18/20 09:14	10/18/20 22:38	1
N-Nitrosodi-n-propylamine	ND		1.0	0.43	ug/L		10/18/20 09:14	10/18/20 22:38	1
N-Nitrosodiphenylamine	ND		10	0.89	ug/L		10/18/20 09:14	10/18/20 22:38	1
Pentachlorophenol	ND		20	3.0	ug/L		10/18/20 09:14	10/18/20 22:38	1
Phenanthrene	ND		10	0.58	ug/L		10/18/20 09:14	10/18/20 22:38	1
Phenol	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 22:38	1
Pyrene	ND		10	1.6	ug/L		10/18/20 09:14	10/18/20 22:38	1
Pyridine	ND		10	5.9	ug/L		10/18/20 09:14	10/18/20 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*118*		*14 - 149*	*10/18/20 09:14*	*10/18/20 22:38*	*1*
2-Fluorobiphenyl	*75*		*44 - 129*	*10/18/20 09:14*	*10/18/20 22:38*	*1*
2-Fluorophenol	*45*		*10 - 76*	*10/18/20 09:14*	*10/18/20 22:38*	*1*
Nitrobenzene-d5	*90*		*15 - 314*	*10/18/20 09:14*	*10/18/20 22:38*	*1*
Phenol-d5	*30*		*8 - 424*	*10/18/20 09:14*	*10/18/20 22:38*	*1*
Terphenyl-d14	*77*		*28 - 150*	*10/18/20 09:14*	*10/18/20 22:38*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000000**		5400	660	ug/L			10/17/20 09:48	17
Sulfate	**190000**		8200	2700	ug/L			10/17/20 09:48	17

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**16**	**J**	40	11	ug/L		10/15/20 17:05	10/16/20 13:39	1
Antimony	ND		2.0	0.65	ug/L		10/15/20 17:05	10/16/20 13:39	1
Arsenic	**1.5**	**J**	2.0	0.61	ug/L		10/15/20 17:05	10/16/20 13:39	1
Barium	**290**		4.0	1.0	ug/L		10/15/20 17:05	10/16/20 13:39	1

Client Sample ID: OUTFALL-01A
Lab Sample ID: 460-220550-1
Date Collected: 10/14/20 09:10
Matrix: Water
Date Received: 10/14/20 19:00

Method: 200.8 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.80	0.060	ug/L		10/15/20 17:05	10/16/20 13:39	1
Cadmium	ND		2.0	0.43	ug/L		10/15/20 17:05	10/16/20 13:39	1
Calcium	**160000**		200	22	ug/L		10/15/20 17:05	10/16/20 13:39	1
Chromium	ND		4.0	0.45	ug/L		10/15/20 17:05	10/16/20 13:39	1
Cobalt	**1.4**	**J**	4.0	0.19	ug/L		10/15/20 17:05	10/16/20 13:39	1
Copper	**1.1**	**J**	4.0	1.1	ug/L		10/15/20 17:05	10/16/20 13:39	1
Iron	**600**		120	17	ug/L		10/15/20 17:05	10/16/20 13:39	1
Lead	**0.32**	**J**	1.2	0.071	ug/L		10/15/20 17:05	10/16/20 13:39	1
Magnesium	**92000**		200	27	ug/L		10/15/20 17:05	10/16/20 13:39	1
Manganese	**2300**		8.0	0.75	ug/L		10/15/20 17:05	10/16/20 13:39	1
Nickel	ND		4.0	0.84	ug/L		10/15/20 17:05	10/16/20 13:39	1
Potassium	**19000**		200	84	ug/L		10/15/20 17:05	10/16/20 13:39	1
Selenium	ND		2.5	0.39	ug/L		10/15/20 17:05	10/16/20 13:39	1
Silver	ND		2.0	0.12	ug/L		10/15/20 17:05	10/16/20 13:39	1
Sodium	**600000**		1000	99	ug/L		10/15/20 17:05	10/16/20 14:09	5
Thallium	ND		0.80	0.15	ug/L		10/15/20 17:05	10/16/20 13:39	1
Vanadium	**0.50**	**J**	4.0	0.24	ug/L		10/15/20 17:05	10/16/20 13:39	1
Zinc	**15**	**J**	16	2.6	ug/L		10/15/20 17:05	10/16/20 13:39	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		10/16/20 13:04	10/16/20 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**2.8**	**B**	0.50	0.11	NTU			10/15/20 16:47	1
Phenols, Total	ND		50	41	ug/L		10/21/20 10:34	10/21/20 16:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	ND		5.0	5.0	mg/L			10/18/20 10:37	1
SGT-HEM	ND		5.0	5.0	mg/L			10/18/20 10:37	1
Total Dissolved Solids	**3300000**		100000	100000	ug/L			10/20/20 10:42	1
Total Suspended Solids	ND		2500	2500	ug/L			10/19/20 08:41	1
Settleable Solids	ND		0.10	0.10	mL/L			10/15/20 17:00	1
pH	**8.4**	**HF**	0.1	0.1	SU			10/18/20 13:36	1
Temperature	**21.0**	**HF**	0.1	0.1	Degrees C			10/18/20 13:36	1

Client Sample ID: QAQC_TB
Lab Sample ID: 460-220550-2
Date Collected: 10/14/20 09:10
Matrix: Water
Date Received: 10/14/20 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/19/20 17:33	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/19/20 17:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/19/20 17:33	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/19/20 17:33	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/19/20 17:33	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/19/20 17:33	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/19/20 17:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/19/20 17:33	1

Client Sample ID: QAQC_TB
Date Collected: 10/14/20 09:10
Date Received: 10/14/20 19:00

Lab Sample ID: 460-220550-2
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/19/20 17:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/19/20 17:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/19/20 17:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/19/20 17:33	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/19/20 17:33	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/19/20 17:33	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/19/20 17:33	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			10/19/20 17:33	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/19/20 17:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/19/20 17:33	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/19/20 17:33	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/20 17:33	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/19/20 17:33	1
1,4-Dioxane	ND		50	28	ug/L			10/19/20 17:33	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/19/20 17:33	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/19/20 17:33	1
2-Hexanone	ND		5.0	2.9	ug/L			10/19/20 17:33	1
2-Propanol	**20**		10	5.9	ug/L			10/19/20 17:33	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/19/20 17:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/19/20 17:33	1
Acetonitrile	ND		10	5.0	ug/L			10/19/20 17:33	1
Benzene	ND		1.0	0.43	ug/L			10/19/20 17:33	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/19/20 17:33	1
Bromobenzene	ND		1.0	0.35	ug/L			10/19/20 17:33	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/19/20 17:33	1
Bromoform	ND		1.0	0.54	ug/L			10/19/20 17:33	1
Bromomethane	ND		1.0	0.45	ug/L			10/19/20 17:33	1
Butyl acetate	ND		2.0	0.33	ug/L			10/19/20 17:33	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/19/20 17:33	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/19/20 17:33	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/19/20 17:33	1
Chloroethane	ND		1.0	0.32	ug/L			10/19/20 17:33	1
Chloroform	ND		1.0	0.33	ug/L			10/19/20 17:33	1
Chloromethane	ND		1.0	0.43	ug/L			10/19/20 17:33	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			10/19/20 17:33	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/19/20 17:33	1
Cyclohexane	ND		1.0	0.32	ug/L			10/19/20 17:33	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/19/20 17:33	1
Dibromomethane	ND		1.0	0.60	ug/L			10/19/20 17:33	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/19/20 17:33	1
Diisopropyl ether	ND		1.0	0.45	ug/L			10/19/20 17:33	1
Ethyl acetate	ND		2.0	0.73	ug/L			10/19/20 17:33	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/19/20 17:33	1
Freon 113	ND		1.0	0.31	ug/L			10/19/20 17:33	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/19/20 17:33	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/19/20 17:33	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/19/20 17:33	1
Methyl iodide	ND		1.0	0.48	ug/L			10/19/20 17:33	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/19/20 17:33	1

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220550-1
Project/Site: EMGPRP-31097

Client Sample ID: QAQC_TB
Lab Sample ID: 460-220550-2
Date Collected: 10/14/20 09:10
Matrix: Water
Date Received: 10/14/20 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.32	ug/L			10/19/20 17:33	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/19/20 17:33	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/19/20 17:33	1
n-Heptane	ND		5.0	0.47	ug/L			10/19/20 17:33	1
n-Hexane	ND		1.0	0.69	ug/L			10/19/20 17:33	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/19/20 17:33	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/19/20 17:33	1
o-Xylene	ND		1.0	0.36	ug/L			10/19/20 17:33	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/19/20 17:33	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/19/20 17:33	1
Styrene	ND		1.0	0.42	ug/L			10/19/20 17:33	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/19/20 17:33	1
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/19/20 17:33	1
Tetrachloroethene	ND		1.0	0.25	ug/L			10/19/20 17:33	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/19/20 17:33	1
Toluene	ND		1.0	0.38	ug/L			10/19/20 17:33	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/19/20 17:33	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/19/20 17:33	1
Trichloroethene	ND		1.0	0.31	ug/L			10/19/20 17:33	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/19/20 17:33	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/19/20 17:33	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/19/20 17:33	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/19/20 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*		*10/19/20 17:33*	*1*
Bromofluorobenzene	*102*		*60 - 140*		*10/19/20 17:33*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*10/19/20 17:33*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*10/19/20 17:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/16/20 11:12	1
Acetone	ND		5.0	4.4	ug/L			10/16/20 11:12	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			10/16/20 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*		*10/16/20 11:12*	*1*
4-Bromofluorobenzene	*109*		*76 - 120*		*10/16/20 11:12*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 124*		*10/16/20 11:12*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/16/20 11:12*	*1*

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220550-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
460-220550-1	OUTFALL-01A	97	103	100	100
460-220550-2	QAQC_TB	96	102	103	99
LCS 460-732803/4	Lab Control Sample	92	110	103	99
LCSD 460-732803/5	Lab Control Sample Dup	91	104	100	98
MB 460-732803/8	Method Blank	96	106	107	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-123)	(76-120)	(77-124)	(80-120)
460-220550-1	OUTFALL-01A	102	110	93	101
460-220550-2	QAQC_TB	101	109	93	102
LCS 460-732173/5	Lab Control Sample	101	116	93	103
LCSD 460-732173/6	Lab Control Sample Dup	101	105	92	102
MB 460-732173/10	Method Blank	99	77	92	81

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(14-149)	(44-129)	(10-76)	(15-314)	(8-424)	(28-150)
460-220550-1	OUTFALL-01A	118	75	45	90	30	77
LCS 460-732660/2-A	Lab Control Sample	129	90	51	96	35	95
LCSD 460-732660/3-A	Lab Control Sample Dup	138	95	54	102	38	101
MB 460-732660/1-A	Method Blank	125	90	56	103	41	108

Surrogate Legend

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

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-732803/8
Matrix: Water
Analysis Batch: 732803

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/19/20 09:07	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/19/20 09:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/19/20 09:07	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/19/20 09:07	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/19/20 09:07	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/19/20 09:07	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/19/20 09:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/19/20 09:07	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/19/20 09:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/19/20 09:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/19/20 09:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/19/20 09:07	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/19/20 09:07	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/19/20 09:07	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/19/20 09:07	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			10/19/20 09:07	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/19/20 09:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/19/20 09:07	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/19/20 09:07	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/19/20 09:07	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/19/20 09:07	1
1,4-Dioxane	ND		50	28	ug/L			10/19/20 09:07	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/19/20 09:07	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/19/20 09:07	1
2-Hexanone	ND		5.0	2.9	ug/L			10/19/20 09:07	1
2-Propanol	ND		10	5.9	ug/L			10/19/20 09:07	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/19/20 09:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/19/20 09:07	1
Acetonitrile	ND		10	5.0	ug/L			10/19/20 09:07	1
Benzene	ND		1.0	0.43	ug/L			10/19/20 09:07	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/19/20 09:07	1
Bromobenzene	ND		1.0	0.35	ug/L			10/19/20 09:07	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/19/20 09:07	1
Bromoform	ND		1.0	0.54	ug/L			10/19/20 09:07	1
Bromomethane	ND		1.0	0.45	ug/L			10/19/20 09:07	1
Butyl acetate	ND		2.0	0.33	ug/L			10/19/20 09:07	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/19/20 09:07	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/19/20 09:07	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/19/20 09:07	1
Chloroethane	ND		1.0	0.32	ug/L			10/19/20 09:07	1
Chloroform	ND		1.0	0.33	ug/L			10/19/20 09:07	1
Chloromethane	ND		1.0	0.43	ug/L			10/19/20 09:07	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			10/19/20 09:07	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/19/20 09:07	1
Cyclohexane	ND		1.0	0.32	ug/L			10/19/20 09:07	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/19/20 09:07	1
Dibromomethane	ND		1.0	0.60	ug/L			10/19/20 09:07	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/19/20 09:07	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-732803/8
Matrix: Water
Analysis Batch: 732803

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.45	ug/L			10/19/20 09:07	1
Ethyl acetate	ND		2.0	0.73	ug/L			10/19/20 09:07	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/19/20 09:07	1
Freon 113	ND		1.0	0.31	ug/L			10/19/20 09:07	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/19/20 09:07	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/19/20 09:07	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/19/20 09:07	1
Methyl iodide	ND		1.0	0.48	ug/L			10/19/20 09:07	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/19/20 09:07	1
Methylene Chloride	ND		1.0	0.32	ug/L			10/19/20 09:07	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/19/20 09:07	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/19/20 09:07	1
n-Heptane	ND		5.0	0.47	ug/L			10/19/20 09:07	1
n-Hexane	ND		1.0	0.69	ug/L			10/19/20 09:07	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/19/20 09:07	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/19/20 09:07	1
o-Xylene	ND		1.0	0.36	ug/L			10/19/20 09:07	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/19/20 09:07	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/19/20 09:07	1
Styrene	ND		1.0	0.42	ug/L			10/19/20 09:07	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/19/20 09:07	1
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/19/20 09:07	1
Tetrachloroethene	ND		1.0	0.25	ug/L			10/19/20 09:07	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/19/20 09:07	1
Toluene	ND		1.0	0.38	ug/L			10/19/20 09:07	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/19/20 09:07	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/19/20 09:07	1
Trichloroethene	ND		1.0	0.31	ug/L			10/19/20 09:07	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/19/20 09:07	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/19/20 09:07	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/19/20 09:07	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/19/20 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*		*10/19/20 09:07*	*1*
Bromofluorobenzene	*106*		*60 - 140*		*10/19/20 09:07*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*10/19/20 09:07*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*10/19/20 09:07*	*1*

Lab Sample ID: LCS 460-732803/4
Matrix: Water
Analysis Batch: 732803

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/L		103	60 - 140
1,1,1-Trichloroethane	20.0	21.2		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	20.0	16.7		ug/L		84	60 - 140
1,1,2-Trichloroethane	20.0	17.3		ug/L		87	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-732803/4
Matrix: Water
Analysis Batch: 732803

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	17.0		ug/L		85	70 - 130
1,1-Dichloroethene	20.0	21.0		ug/L		105	50 - 150
1,1-Dichloropropene	20.0	19.1		ug/L		96	60 - 140
1,2,3-Trichlorobenzene	20.0	19.7		ug/L		99	60 - 140
1,2,3-Trichloropropane	20.0	17.9		ug/L		89	60 - 140
1,2,4-Trichlorobenzene	20.0	20.1		ug/L		100	60 - 140
1,2,4-Trimethylbenzene	20.0	18.6		ug/L		93	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	16.4		ug/L		82	60 - 140
1,2-Dibromoethane	20.0	19.5		ug/L		97	60 - 140
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	65 - 135
1,2-Dichloroethane	20.0	17.8		ug/L		89	70 - 130
1,2-Dichloropropane	20.0	16.4		ug/L		82	35 - 165
1,3,5-Trimethylbenzene	20.0	18.7		ug/L		94	60 - 140
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	70 - 130
1,3-Dichloropropane	20.0	17.2		ug/L		86	60 - 140
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	65 - 135
1,4-Dioxane	400	378		ug/L		94	60 - 140
2,2-Dichloropropane	20.0	19.6		ug/L		98	60 - 140
2-Chlorotoluene	20.0	17.9		ug/L		90	60 - 140
2-Hexanone	100	96.4		ug/L		96	60 - 140
4-Chlorotoluene	20.0	18.0		ug/L		90	60 - 140
4-Methyl-2-pentanone (MIBK)	100	96.7		ug/L		97	60 - 140
Acetonitrile	200	188		ug/L		94	60 - 140
Benzene	20.0	18.0		ug/L		90	65 - 135
Benzyl chloride	20.0	20.3		ug/L		101	60 - 140
Bromobenzene	20.0	18.3		ug/L		92	60 - 140
Bromodichloromethane	20.0	18.5		ug/L		92	65 - 135
Bromoform	20.0	21.7		ug/L		109	70 - 130
Bromomethane	20.0	19.5		ug/L		98	15 - 185
Butyl acetate	20.0	15.9		ug/L		80	60 - 140
Carbon disulfide	20.0	19.4		ug/L		97	60 - 140
Carbon tetrachloride	20.0	22.1		ug/L		110	70 - 130
Chlorobenzene	20.0	19.1		ug/L		95	65 - 135
Chloroethane	20.0	18.2		ug/L		91	40 - 160
Chloroform	20.0	17.7		ug/L		88	70 - 135
Chloromethane	20.0	17.2		ug/L		86	0.1 - 205
cis-1,2-Dichloroethene	20.0	18.0		ug/L		90	60 - 140
cis-1,3-Dichloropropene	20.0	17.8		ug/L		89	25 - 175
Cyclohexane	20.0	17.4		ug/L		87	60 - 140
Dibromochloromethane	20.0	19.7		ug/L		99	70 - 135
Dibromomethane	20.0	17.9		ug/L		89	60 - 140
Dichlorodifluoromethane	20.0	21.1		ug/L		106	60 - 140
Diisopropyl ether	20.0	15.8		ug/L		79	60 - 140
Ethyl acetate	40.0	39.4		ug/L		98	60 - 140
Ethylbenzene	20.0	19.0		ug/L		95	60 - 140
Freon 113	20.0	20.9		ug/L		104	60 - 140
Hexachlorobutadiene	20.0	21.5		ug/L		107	60 - 140
Isopropyl acetate	20.0	15.6		ug/L		78	60 - 140
Isopropylbenzene	20.0	19.9		ug/L		100	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-732803/4
Matrix: Water
Analysis Batch: 732803

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl iodide	20.0	19.6		ug/L		98	60 - 140
Methyl methacrylate	40.0	37.9		ug/L		95	60 - 140
Methylene Chloride	20.0	17.2		ug/L		86	60 - 140
m-Xylene & p-Xylene	20.0	18.2		ug/L		91	60 - 140
n-Butylbenzene	20.0	17.8		ug/L		89	60 - 140
n-Heptane	20.0	19.8		ug/L		99	60 - 140
n-Hexane	20.0	17.8		ug/L		89	60 - 140
n-Propyl acetate	20.0	14.4		ug/L		72	60 - 140
N-Propylbenzene	20.0	18.4		ug/L		92	60 - 140
o-Xylene	20.0	19.2		ug/L		96	60 - 140
p-Isopropyltoluene	20.0	19.2		ug/L		96	60 - 140
sec-Butylbenzene	20.0	19.6		ug/L		98	60 - 140
Styrene	20.0	19.5		ug/L		98	60 - 140
t-Butyl alcohol	200	210		ug/L		105	60 - 140
tert-Butylbenzene	20.0	19.0		ug/L		95	60 - 140
Tetrachloroethene	20.0	20.1		ug/L		101	70 - 130
Tetrahydrofuran	40.0	39.5		ug/L		99	60 - 140
Toluene	20.0	18.6		ug/L		93	70 - 130
trans-1,2-Dichloroethene	20.0	18.5		ug/L		93	70 - 130
trans-1,3-Dichloropropene	20.0	17.9		ug/L		89	50 - 150
Trichloroethene	20.0	18.4		ug/L		92	65 - 135
Trichlorofluoromethane	20.0	22.3		ug/L		112	50 - 150
Vinyl acetate	40.0	43.6		ug/L		109	60 - 140
Vinyl chloride	20.0	19.1		ug/L		95	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*
Bromofluorobenzene	*110*		*60 - 140*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: LCSD 460-732803/5
Matrix: Water
Analysis Batch: 732803

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/L		104	60 - 140	1	50
1,1,1-Trichloroethane	20.0	23.0		ug/L		115	70 - 130	8	36
1,1,2,2-Tetrachloroethane	20.0	18.3		ug/L		92	60 - 140	9	61
1,1,2-Trichloroethane	20.0	18.9		ug/L		94	70 - 130	8	45
1,1-Dichloroethane	20.0	18.9		ug/L		95	70 - 130	11	40
1,1-Dichloroethene	20.0	21.1		ug/L		106	50 - 150	1	32
1,1-Dichloropropene	20.0	19.6		ug/L		98	60 - 140	3	50
1,2,3-Trichlorobenzene	20.0	21.8		ug/L		109	60 - 140	10	50
1,2,3-Trichloropropane	20.0	19.0		ug/L		95	60 - 140	6	50
1,2,4-Trichlorobenzene	20.0	21.2		ug/L		106	60 - 140	6	50
1,2,4-Trimethylbenzene	20.0	20.8		ug/L		104	60 - 140	11	50
1,2-Dibromo-3-Chloropropane	20.0	19.9		ug/L		99	60 - 140	19	50

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-732803/5
Matrix: Water
Analysis Batch: 732803

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	20.0	19.9		ug/L		99	60 - 140	2	50
1,2-Dichlorobenzene	20.0	21.0		ug/L		105	65 - 135	7	57
1,2-Dichloroethane	20.0	19.3		ug/L		96	70 - 130	8	49
1,2-Dichloropropane	20.0	18.2		ug/L		91	35 - 165	11	55
1,3,5-Trimethylbenzene	20.0	20.7		ug/L		103	60 - 140	10	50
1,3-Dichlorobenzene	20.0	21.1		ug/L		105	70 - 130	10	43
1,3-Dichloropropane	20.0	18.9		ug/L		95	60 - 140	9	50
1,4-Dichlorobenzene	20.0	21.4		ug/L		107	65 - 135	12	57
1,4-Dioxane	400	456		ug/L		114	60 - 140	19	50
2,2-Dichloropropane	20.0	21.1		ug/L		105	60 - 140	7	50
2-Chlorotoluene	20.0	20.2		ug/L		101	60 - 140	12	50
2-Hexanone	100	104		ug/L		104	60 - 140	7	50
4-Chlorotoluene	20.0	20.3		ug/L		102	60 - 140	12	50
4-Methyl-2-pentanone (MIBK)	100	105		ug/L		105	60 - 140	9	50
Acetonitrile	200	224		ug/L		112	60 - 140	18	50
Benzene	20.0	19.4		ug/L		97	65 - 135	8	61
Benzyl chloride	20.0	22.5		ug/L		112	60 - 140	10	50
Bromobenzene	20.0	20.5		ug/L		102	60 - 140	11	50
Bromodichloromethane	20.0	19.8		ug/L		99	65 - 135	7	56
Bromoform	20.0	23.9		ug/L		120	70 - 130	10	42
Bromomethane	20.0	21.2		ug/L		106	15 - 185	8	61
Butyl acetate	20.0	17.4		ug/L		87	60 - 140	9	50
Carbon disulfide	20.0	21.4		ug/L		107	60 - 140	10	50
Carbon tetrachloride	20.0	23.7		ug/L		118	70 - 130	7	41
Chlorobenzene	20.0	20.4		ug/L		102	65 - 135	7	53
Chloroethane	20.0	18.3		ug/L		91	40 - 160	1	78
Chloroform	20.0	18.7		ug/L		94	70 - 135	6	54
Chloromethane	20.0	18.3		ug/L		91	0.1 - 205	6	60
cis-1,2-Dichloroethene	20.0	19.3		ug/L		96	60 - 140	7	50
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	25 - 175	11	58
Cyclohexane	20.0	18.4		ug/L		92	60 - 140	5	50
Dibromochloromethane	20.0	21.3		ug/L		106	70 - 135	8	50
Dibromomethane	20.0	18.9		ug/L		94	60 - 140	5	50
Dichlorodifluoromethane	20.0	21.6		ug/L		108	60 - 140	2	50
Diisopropyl ether	20.0	17.3		ug/L		86	60 - 140	9	50
Ethyl acetate	40.0	41.9		ug/L		105	60 - 140	6	50
Ethylbenzene	20.0	20.4		ug/L		102	60 - 140	7	63
Freon 113	20.0	19.0		ug/L		95	60 - 140	10	50
Hexachlorobutadiene	20.0	23.2		ug/L		116	60 - 140	8	50
Isopropyl acetate	20.0	16.7		ug/L		83	60 - 140	7	50
Isopropylbenzene	20.0	21.3		ug/L		107	60 - 140	7	50
Methyl iodide	20.0	21.0		ug/L		105	60 - 140	7	50
Methyl methacrylate	40.0	38.6		ug/L		96	60 - 140	2	50
Methylene Chloride	20.0	18.2		ug/L		91	60 - 140	6	28
m-Xylene & p-Xylene	20.0	19.6		ug/L		98	60 - 140	8	50
n-Butylbenzene	20.0	20.2		ug/L		101	60 - 140	13	50
n-Heptane	20.0	20.1		ug/L		100	60 - 140	1	50
n-Hexane	20.0	18.5		ug/L		93	60 - 140	4	50
n-Propyl acetate	20.0	15.1		ug/L		76	60 - 140	5	50

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-732803/5
Matrix: Water
Analysis Batch: 732803

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene	20.0	21.0		ug/L		105	60 - 140	13	50
o-Xylene	20.0	20.8		ug/L		104	60 - 140	8	50
p-Isopropyltoluene	20.0	21.6		ug/L		108	60 - 140	12	50
sec-Butylbenzene	20.0	21.8		ug/L		109	60 - 140	11	50
Styrene	20.0	20.5		ug/L		102	60 - 140	5	50
t-Butyl alcohol	200	218		ug/L		109	60 - 140	4	50
tert-Butylbenzene	20.0	21.0		ug/L		105	60 - 140	10	50
Tetrachloroethene	20.0	21.5		ug/L		108	70 - 130	7	39
Tetrahydrofuran	40.0	42.9		ug/L		107	60 - 140	8	50
Toluene	20.0	19.7		ug/L		98	70 - 130	6	41
trans-1,2-Dichloroethene	20.0	19.3		ug/L		96	70 - 130	4	45
trans-1,3-Dichloropropene	20.0	19.6		ug/L		98	50 - 150	9	86
Trichloroethene	20.0	19.6		ug/L		98	65 - 135	6	48
Trichlorofluoromethane	20.0	23.3		ug/L		117	50 - 150	5	84
Vinyl acetate	40.0	51.5		ug/L		129	60 - 140	17	50
Vinyl chloride	20.0	19.9		ug/L		99	5 - 195	4	66

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 140*
Bromofluorobenzene	*104*		*60 - 140*
Dibromofluoromethane (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*98*		*60 - 140*

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

Lab Sample ID: MB 460-732173/10
Matrix: Water
Analysis Batch: 732173

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/16/20 09:35	1
Acetone	ND		5.0	4.4	ug/L			10/16/20 09:35	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			10/16/20 09:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 123*		*10/16/20 09:35*	*1*
4-Bromofluorobenzene	*77*		*76 - 120*		*10/16/20 09:35*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 124*		*10/16/20 09:35*	*1*
Toluene-d8 (Surr)	*81*		*80 - 120*		*10/16/20 09:35*	*1*

Lab Sample ID: LCS 460-732173/5
Matrix: Water
Analysis Batch: 732173

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	100	78.5		ug/L		78	69 - 128
Acetone	100	94.6		ug/L		95	61 - 134
Methyl tert-butyl ether	20.0	20.8		ug/L		104	65 - 131

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

Lab Sample ID: LCS 460-732173/5
Matrix: Water
Analysis Batch: 732173

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*
4-Bromofluorobenzene	*116*		*76 - 120*
Dibromofluoromethane (Surr)	*93*		*77 - 124*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 460-732173/6
Matrix: Water
Analysis Batch: 732173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			100	82.5		ug/L		82	69 - 128	5	30
Acetone			100	112		ug/L		112	61 - 134	17	30
Methyl tert-butyl ether			20.0	22.7		ug/L		113	65 - 131	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*
4-Bromofluorobenzene	*105*		*76 - 120*
Dibromofluoromethane (Surr)	*92*		*77 - 124*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-732660/1-A
Matrix: Water
Analysis Batch: 732730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 19:50	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 19:50	1
1,2,4-Trichlorobenzene	ND		2.0	1.3	ug/L		10/18/20 09:14	10/18/20 19:50	1
1,2-Dichlorobenzene	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 19:50	1
1,2-Diphenylhydrazine	ND		10	0.37	ug/L		10/18/20 09:14	10/18/20 19:50	1
1,3-Dichlorobenzene	ND		10	2.0	ug/L		10/18/20 09:14	10/18/20 19:50	1
1,4-Dichlorobenzene	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 19:50	1
1,4-Dioxane	ND		10	1.6	ug/L		10/18/20 09:14	10/18/20 19:50	1
1-Methylnaphthalene	ND		4.0	1.1	ug/L		10/18/20 09:14	10/18/20 19:50	1
2,2'-oxybis[1-chloropropane]	ND		10	0.63	ug/L		10/18/20 09:14	10/18/20 19:50	1
2,3,4,6-Tetrachlorophenol	ND		10	0.75	ug/L		10/18/20 09:14	10/18/20 19:50	1
2,4,5-Trichlorophenol	ND		10	0.85	ug/L		10/18/20 09:14	10/18/20 19:50	1
2,4,6-Trichlorophenol	ND		10	0.70	ug/L		10/18/20 09:14	10/18/20 19:50	1
2,4-Dichlorophenol	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 19:50	1
2,4-Dimethylphenol	ND		10	0.66	ug/L		10/18/20 09:14	10/18/20 19:50	1
2,4-Dinitrophenol	ND		20	2.0	ug/L		10/18/20 09:14	10/18/20 19:50	1
2,4-Dinitrotoluene	ND		2.0	1.0	ug/L		10/18/20 09:14	10/18/20 19:50	1
2,6-Dinitrotoluene	ND		2.0	0.53	ug/L		10/18/20 09:14	10/18/20 19:50	1
2-Chloronaphthalene	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 19:50	1
2-Chlorophenol	ND		10	0.38	ug/L		10/18/20 09:14	10/18/20 19:50	1
2-Methylnaphthalene	ND		10	1.1	ug/L		10/18/20 09:14	10/18/20 19:50	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220550-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-732660/1-A
Matrix: Water
Analysis Batch: 732730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		10	0.67	ug/L		10/18/20 09:14	10/18/20 19:50	1
2-Nitroaniline	ND		10	0.47	ug/L		10/18/20 09:14	10/18/20 19:50	1
2-Nitrophenol	ND		10	0.75	ug/L		10/18/20 09:14	10/18/20 19:50	1
3,3'-Dichlorobenzidine	ND		10	1.6	ug/L		10/18/20 09:14	10/18/20 19:50	1
3-Nitroaniline	ND		10	0.96	ug/L		10/18/20 09:14	10/18/20 19:50	1
4,6-Dinitro-2-methylphenol	ND		20	3.4	ug/L		10/18/20 09:14	10/18/20 19:50	1
4-Bromophenyl phenyl ether	ND		10	0.75	ug/L		10/18/20 09:14	10/18/20 19:50	1
4-Chloro-3-methylphenol	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 19:50	1
4-Chloroaniline	ND		10	1.9	ug/L		10/18/20 09:14	10/18/20 19:50	1
4-Chlorophenyl phenyl ether	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 19:50	1
4-Methylphenol	ND		10	0.76	ug/L		10/18/20 09:14	10/18/20 19:50	1
4-Nitroaniline	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 19:50	1
4-Nitrophenol	ND		20	1.7	ug/L		10/18/20 09:14	10/18/20 19:50	1
Acenaphthene	ND		10	1.1	ug/L		10/18/20 09:14	10/18/20 19:50	1
Acenaphthylene	ND		10	0.82	ug/L		10/18/20 09:14	10/18/20 19:50	1
Acetophenone	ND		10	2.5	ug/L		10/18/20 09:14	10/18/20 19:50	1
Aniline	ND		10	1.1	ug/L		10/18/20 09:14	10/18/20 19:50	1
Anthracene	ND		10	0.63	ug/L		10/18/20 09:14	10/18/20 19:50	1
Benzidine	ND		10	5.9	ug/L		10/18/20 09:14	10/18/20 19:50	1
Benzo[a]anthracene	ND		1.0	0.59	ug/L		10/18/20 09:14	10/18/20 19:50	1
Benzo[a]pyrene	ND		1.0	0.68	ug/L		10/18/20 09:14	10/18/20 19:50	1
Benzo[b]fluoranthene	ND		2.0	1.4	ug/L		10/18/20 09:14	10/18/20 19:50	1
Benzo[g,h,i]perylene	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 19:50	1
Benzo[k]fluoranthene	ND		1.0	0.67	ug/L		10/18/20 09:14	10/18/20 19:50	1
Benzoic acid	ND		50	4.6	ug/L		10/18/20 09:14	10/18/20 19:50	1
Benzyl alcohol	ND		10	0.94	ug/L		10/18/20 09:14	10/18/20 19:50	1
Bis(2-chloroethoxy)methane	ND		10	0.64	ug/L		10/18/20 09:14	10/18/20 19:50	1
Bis(2-chloroethyl)ether	ND		1.0	0.69	ug/L		10/18/20 09:14	10/18/20 19:50	1
Bis(2-ethylhexyl) phthalate	ND		2.0	1.0	ug/L		10/18/20 09:14	10/18/20 19:50	1
Butyl benzyl phthalate	ND		10	0.85	ug/L		10/18/20 09:14	10/18/20 19:50	1
Carbazole	ND		10	0.68	ug/L		10/18/20 09:14	10/18/20 19:50	1
Chrysene	ND		2.0	0.91	ug/L		10/18/20 09:14	10/18/20 19:50	1
Dibenz(a,h)anthracene	ND		1.0	0.74	ug/L		10/18/20 09:14	10/18/20 19:50	1
Dibenzofuran	ND		10	1.1	ug/L		10/18/20 09:14	10/18/20 19:50	1
Diethyl phthalate	ND		10	0.98	ug/L		10/18/20 09:14	10/18/20 19:50	1
Dimethyl phthalate	ND		10	0.77	ug/L		10/18/20 09:14	10/18/20 19:50	1
Di-n-butyl phthalate	ND		10	0.75	ug/L		10/18/20 09:14	10/18/20 19:50	1
Di-n-octyl phthalate	ND		10	1.4	ug/L		10/18/20 09:14	10/18/20 19:50	1
Diphenyl ether	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 19:50	1
Fluoranthene	ND		10	0.84	ug/L		10/18/20 09:14	10/18/20 19:50	1
Fluorene	ND		10	0.91	ug/L		10/18/20 09:14	10/18/20 19:50	1
Hexachlorobenzene	ND		1.0	0.91	ug/L		10/18/20 09:14	10/18/20 19:50	1
Hexachlorobutadiene	ND		1.0	0.44	ug/L		10/18/20 09:14	10/18/20 19:50	1
Hexachlorocyclopentadiene	ND		10	1.7	ug/L		10/18/20 09:14	10/18/20 19:50	1
Hexachloroethane	ND		2.0	1.2	ug/L		10/18/20 09:14	10/18/20 19:50	1
Indeno[1,2,3-cd]pyrene	ND		2.0	1.3	ug/L		10/18/20 09:14	10/18/20 19:50	1
Isophorone	ND		10	0.80	ug/L		10/18/20 09:14	10/18/20 19:50	1
Naphthalene	ND		2.0	1.1	ug/L		10/18/20 09:14	10/18/20 19:50	1
n-Decane	ND		10	1.3	ug/L		10/18/20 09:14	10/18/20 19:50	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-732660/1-A
Matrix: Water
Analysis Batch: 732730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		2.0	1.6	ug/L		10/18/20 09:14	10/18/20 19:50	1
N-Nitrosodimethylamine	ND		10	1.4	ug/L		10/18/20 09:14	10/18/20 19:50	1
N-Nitrosodi-n-propylamine	ND		1.0	0.43	ug/L		10/18/20 09:14	10/18/20 19:50	1
N-Nitrosodiphenylamine	ND		10	0.89	ug/L		10/18/20 09:14	10/18/20 19:50	1
Pentachlorophenol	ND		20	3.0	ug/L		10/18/20 09:14	10/18/20 19:50	1
Phenanthrene	ND		10	0.58	ug/L		10/18/20 09:14	10/18/20 19:50	1
Phenol	ND		10	1.2	ug/L		10/18/20 09:14	10/18/20 19:50	1
Pyrene	ND		10	1.6	ug/L		10/18/20 09:14	10/18/20 19:50	1
Pyridine	ND		10	5.9	ug/L		10/18/20 09:14	10/18/20 19:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*125*		*14 - 149*	*10/18/20 09:14*	*10/18/20 19:50*	*1*
2-Fluorobiphenyl	*90*		*44 - 129*	*10/18/20 09:14*	*10/18/20 19:50*	*1*
2-Fluorophenol	*56*		*10 - 76*	*10/18/20 09:14*	*10/18/20 19:50*	*1*
Nitrobenzene-d5	*103*		*15 - 314*	*10/18/20 09:14*	*10/18/20 19:50*	*1*
Phenol-d5	*41*		*8 - 424*	*10/18/20 09:14*	*10/18/20 19:50*	*1*
Terphenyl-d14	*108*		*28 - 150*	*10/18/20 09:14*	*10/18/20 19:50*	*1*

Lab Sample ID: LCS 460-732660/2-A
Matrix: Water
Analysis Batch: 732730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	80.0	75.6		ug/L		94	60 - 140
1,2,4-Trichlorobenzene	80.0	70.5		ug/L		88	44 - 142
1,2-Dichlorobenzene	80.0	67.6		ug/L		84	25 - 101
1,2-Diphenylhydrazine	80.0	70.0		ug/L		88	60 - 140
1,3-Dichlorobenzene	80.0	66.3		ug/L		83	25 - 101
1,4-Dichlorobenzene	80.0	65.9		ug/L		82	27 - 101
1-Methylnaphthalene	80.0	73.7		ug/L		92	60 - 140
2,2'-oxybis[1-chloropropane]	80.0	67.0		ug/L		84	36 - 166
2,3,4,6-Tetrachlorophenol	80.0	92.4		ug/L		115	60 - 140
2,4,6-Trichlorophenol	80.0	85.8		ug/L		107	37 - 144
2,4-Dichlorophenol	80.0	77.2		ug/L		96	39 - 135
2,4-Dimethylphenol	80.0	70.5		ug/L		88	32 - 120
2,4-Dinitrophenol	160	280		ug/L		175	0.1 - 191
2,4-Dinitrotoluene	80.0	100		ug/L		125	39 - 139
2,6-Dinitrotoluene	80.0	93.8		ug/L		117	50 - 158
2-Chloronaphthalene	80.0	76.0		ug/L		95	60 - 120
2-Chlorophenol	80.0	66.8		ug/L		83	55 - 101
2-Nitrophenol	80.0	92.2		ug/L		115	29 - 182
3,3'-Dichlorobenzidine	80.0	88.0		ug/L		110	0.1 - 262
4,6-Dinitro-2-methylphenol	160	237		ug/L		148	0.1 - 181
4-Bromophenyl phenyl ether	80.0	75.2		ug/L		94	53 - 127
4-Chloro-3-methylphenol	80.0	72.9		ug/L		91	22 - 147
4-Chlorophenyl phenyl ether	80.0	78.9		ug/L		99	25 - 158
4-Nitrophenol	160	72.8		ug/L		45	0.1 - 132
Acenaphthene	80.0	78.0		ug/L		98	47 - 135

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-732660/2-A
Matrix: Water
Analysis Batch: 732730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	80.0	79.3		ug/L		99	33 - 145
Acetophenone	80.0	77.9		ug/L		97	60 - 140
Anthracene	80.0	77.6		ug/L		97	27 - 133
Benzidine	80.0	94.0		ug/L		118	0.1 - 136
Benzo[a]anthracene	80.0	74.5		ug/L		93	33 - 143
Benzo[a]pyrene	80.0	87.1		ug/L		109	17 - 163
Benzo[b]fluoranthene	80.0	83.8		ug/L		105	24 - 159
Benzo[g,h,i]perylene	80.0	102		ug/L		128	0.1 - 219
Benzo[k]fluoranthene	80.0	80.9		ug/L		101	11 - 162
Benzyl alcohol	80.0	63.2		ug/L		79	60 - 140
Bis(2-chloroethoxy)methane	80.0	73.1		ug/L		91	33 - 184
Bis(2-chloroethyl)ether	80.0	75.6		ug/L		94	12 - 158
Bis(2-ethylhexyl) phthalate	80.0	79.6		ug/L		100	8 - 158
Butyl benzyl phthalate	80.0	79.5		ug/L		99	0.1 - 152
Chrysene	80.0	76.6		ug/L		96	17 - 168
Dibenz(a,h)anthracene	80.0	105		ug/L		131	0.1 - 227
Diethyl phthalate	80.0	82.3		ug/L		103	0.1 - 120
Dimethyl phthalate	80.0	82.8		ug/L		104	0.1 - 120
Di-n-butyl phthalate	80.0	77.8		ug/L		97	1 - 120
Di-n-octyl phthalate	80.0	81.1		ug/L		101	4 - 146
Diphenyl ether	80.0	79.1		ug/L		99	60 - 140
Fluoranthene	80.0	84.1		ug/L		105	26 - 137
Fluorene	80.0	80.3		ug/L		100	59 - 121
Hexachlorobenzene	80.0	80.1		ug/L		100	0.1 - 152
Hexachlorobutadiene	80.0	72.5		ug/L		91	24 - 120
Hexachlorocyclopentadiene	80.0	67.9		ug/L		85	8 - 105
Hexachloroethane	80.0	69.2		ug/L		87	40 - 120
Indeno[1,2,3-cd]pyrene	80.0	103		ug/L		129	0.1 - 171
Isophorone	80.0	77.0		ug/L		96	21 - 196
Naphthalene	80.0	73.4		ug/L		92	21 - 133
n-Decane	80.0	58.6		ug/L		73	0.1 - 107
Nitrobenzene	80.0	83.4		ug/L		104	35 - 180
N-Nitrosodimethylamine	80.0	43.9		ug/L		55	25 - 76
N-Nitrosodi-n-propylamine	80.0	78.2		ug/L		98	0.1 - 230
N-Nitrosodiphenylamine	80.0	74.6		ug/L		93	60 - 140
Pentachlorophenol	160	181		ug/L		113	14 - 176
Phenanthrene	80.0	77.2		ug/L		97	54 - 120
Phenol	80.0	35.2		ug/L		44	5 - 120
Pyrene	80.0	69.9		ug/L		87	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*129*		*14 - 149*
2-Fluorobiphenyl	*90*		*44 - 129*
2-Fluorophenol	*51*		*10 - 76*
Nitrobenzene-d5	*96*		*15 - 314*
Phenol-d5	*35*		*8 - 424*
Terphenyl-d14	*95*		*28 - 150*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-732660/3-A
Matrix: Water
Analysis Batch: 732730

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 732660

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl			80.0	75.1		ug/L		94	60 - 140	1	50
1,2,4-Trichlorobenzene			80.0	68.0		ug/L		85	44 - 142	4	50
1,2-Dichlorobenzene			80.0	66.4		ug/L		83	25 - 101	2	50
1,2-Diphenylhydrazine			80.0	70.4		ug/L		88	60 - 140	1	50
1,3-Dichlorobenzene			80.0	64.0		ug/L		80	25 - 101	4	50
1,4-Dichlorobenzene			80.0	64.4		ug/L		81	27 - 101	2	50
1-Methylnaphthalene			80.0	71.7		ug/L		90	60 - 140	3	50
2,2'-oxybis[1-chloropropane]			80.0	68.0		ug/L		85	36 - 166	2	76
2,3,4,6-Tetrachlorophenol			80.0	94.6		ug/L		118	60 - 140	2	50
2,4,6-Trichlorophenol			80.0	85.9		ug/L		107	37 - 144	0	58
2,4-Dichlorophenol			80.0	74.4		ug/L		93	39 - 135	4	50
2,4-Dimethylphenol			80.0	68.5		ug/L		86	32 - 120	3	58
2,4-Dinitrophenol			160	290		ug/L		181	0.1 - 191	4	132
2,4-Dinitrotoluene			80.0	103		ug/L		129	39 - 139	3	42
2,6-Dinitrotoluene			80.0	95.2		ug/L		119	50 - 158	1	48
2-Chloronaphthalene			80.0	75.0		ug/L		94	60 - 120	1	24
2-Chlorophenol			80.0	67.2		ug/L		84	55 - 101	1	61
2-Nitrophenol			80.0	91.1		ug/L		114	29 - 182	1	55
3,3'-Dichlorobenzidine			80.0	88.4		ug/L		110	0.1 - 262	0	108
4,6-Dinitro-2-methylphenol			160	245		ug/L		153	0.1 - 181	3	203
4-Bromophenyl phenyl ether			80.0	75.9		ug/L		95	53 - 127	1	43
4-Chloro-3-methylphenol			80.0	74.0		ug/L		93	22 - 147	1	73
4-Chlorophenyl phenyl ether			80.0	79.1		ug/L		99	25 - 158	0	61
4-Nitrophenol			160	72.0		ug/L		45	0.1 - 132	1	131
Acenaphthene			80.0	77.5		ug/L		97	47 - 135	1	48
Acenaphthylene			80.0	80.2		ug/L		100	33 - 145	1	74
Acetophenone			80.0	77.6		ug/L		97	60 - 140	0	50
Anthracene			80.0	77.2		ug/L		97	27 - 133	0	66
Benzidine			80.0	86.7		ug/L		108	0.1 - 136	8	50
Benzo[a]anthracene			80.0	73.5		ug/L		92	33 - 143	1	53
Benzo[a]pyrene			80.0	87.6		ug/L		110	17 - 163	1	72
Benzo[b]fluoranthene			80.0	85.4		ug/L		107	24 - 159	2	71
Benzo[g,h,i]perylene			80.0	102		ug/L		127	0.1 - 219	0	97
Benzo[k]fluoranthene			80.0	82.6		ug/L		103	11 - 162	2	63
Benzyl alcohol			80.0	60.9		ug/L		76	60 - 140	4	50
Bis(2-chloroethoxy)methane			80.0	72.9		ug/L		91	33 - 184	0	54
Bis(2-chloroethyl)ether			80.0	75.7		ug/L		95	12 - 158	0	108
Bis(2-ethylhexyl) phthalate			80.0	80.5		ug/L		101	8 - 158	1	82
Butyl benzyl phthalate			80.0	79.0		ug/L		99	0.1 - 152	1	60
Chrysene			80.0	76.9		ug/L		96	17 - 168	0	87
Dibenz(a,h)anthracene			80.0	98.8		ug/L		124	0.1 - 227	6	126
Diethyl phthalate			80.0	82.9		ug/L		104	0.1 - 120	1	100
Dimethyl phthalate			80.0	81.8		ug/L		102	0.1 - 120	1	183
Di-n-butyl phthalate			80.0	77.6		ug/L		97	1 - 120	0	47
Di-n-octyl phthalate			80.0	82.7		ug/L		103	4 - 146	2	69
Diphenyl ether			80.0	78.6		ug/L		98	60 - 140	1	50
Fluoranthene			80.0	83.8		ug/L		105	26 - 137	0	66
Fluorene			80.0	81.7		ug/L		102	59 - 121	2	38

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-732660/3-A
Matrix: Water
Analysis Batch: 732730

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 732660

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene			80.0	80.1		ug/L		100	0.1 - 152	0	55
Hexachlorobutadiene			80.0	67.8		ug/L		85	24 - 120	7	62
Hexachlorocyclopentadiene			80.0	65.8		ug/L		82	8 - 105	3	50
Hexachloroethane			80.0	67.2		ug/L		84	40 - 120	3	52
Indeno[1,2,3-cd]pyrene			80.0	103		ug/L		128	0.1 - 171	1	99
Isophorone			80.0	76.5		ug/L		96	21 - 196	1	93
Naphthalene			80.0	71.4		ug/L		89	21 - 133	3	65
n-Decane			80.0	56.1		ug/L		70	0.1 - 107	4	50
Nitrobenzene			80.0	84.4		ug/L		105	35 - 180	1	62
N-Nitrosodimethylamine			80.0	43.1		ug/L		54	25 - 76	2	50
N-Nitrosodi-n-propylamine			80.0	78.5		ug/L		98	0.1 - 230	0	87
N-Nitrosodiphenylamine			80.0	75.1		ug/L		94	60 - 140	1	50
Pentachlorophenol			160	187		ug/L		117	14 - 176	4	86
Phenanthrene			80.0	77.2		ug/L		97	54 - 120	0	39
Phenol			80.0	34.6		ug/L		43	5 - 120	2	64
Pyrene			80.0	68.4		ug/L		86	52 - 120	2	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*138*		*14 - 149*
2-Fluorobiphenyl	*95*		*44 - 129*
2-Fluorophenol	*54*		*10 - 76*
Nitrobenzene-d5	*102*		*15 - 314*
Phenol-d5	*38*		*8 - 424*
Terphenyl-d14	*101*		*28 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-732552/3
Matrix: Water
Analysis Batch: 732552

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		320	39	ug/L			10/17/20 01:52	1
Sulfate	ND		480	160	ug/L			10/17/20 01:52	1

Lab Sample ID: LCS 460-732552/5
Matrix: Water
Analysis Batch: 732552

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			3200	3170		ug/L		99	90 - 110
Sulfate			4800	5100		ug/L		106	90 - 110

Lab Sample ID: LCSD 460-732552/6
Matrix: Water
Analysis Batch: 732552

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			3200	3170		ug/L		99	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 460-732552/6
Matrix: Water
Analysis Batch: 732552

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	4800	5070		ug/L		106	90 - 110	1	15

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 460-732030/1-A
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	11	ug/L		10/15/20 17:05	10/16/20 10:38	1
Antimony	ND		2.0	0.65	ug/L		10/15/20 17:05	10/16/20 10:38	1
Arsenic	ND		2.0	0.61	ug/L		10/15/20 17:05	10/16/20 10:38	1
Barium	ND		4.0	1.0	ug/L		10/15/20 17:05	10/16/20 10:38	1
Beryllium	ND		0.80	0.060	ug/L		10/15/20 17:05	10/16/20 10:38	1
Cadmium	ND		2.0	0.43	ug/L		10/15/20 17:05	10/16/20 10:38	1
Calcium	ND		200	22	ug/L		10/15/20 17:05	10/16/20 10:38	1
Chromium	ND		4.0	0.45	ug/L		10/15/20 17:05	10/16/20 10:38	1
Cobalt	ND		4.0	0.19	ug/L		10/15/20 17:05	10/16/20 10:38	1
Copper	ND		4.0	1.1	ug/L		10/15/20 17:05	10/16/20 10:38	1
Iron	ND		120	17	ug/L		10/15/20 17:05	10/16/20 10:38	1
Lead	ND		1.2	0.071	ug/L		10/15/20 17:05	10/16/20 10:38	1
Magnesium	ND		200	27	ug/L		10/15/20 17:05	10/16/20 10:38	1
Manganese	ND		8.0	0.75	ug/L		10/15/20 17:05	10/16/20 10:38	1
Nickel	ND		4.0	0.84	ug/L		10/15/20 17:05	10/16/20 10:38	1
Potassium	ND		200	84	ug/L		10/15/20 17:05	10/16/20 10:38	1
Selenium	ND		2.5	0.39	ug/L		10/15/20 17:05	10/16/20 10:38	1
Silver	ND		2.0	0.12	ug/L		10/15/20 17:05	10/16/20 10:38	1
Sodium	ND		200	20	ug/L		10/15/20 17:05	10/16/20 10:38	1
Thallium	ND		0.80	0.15	ug/L		10/15/20 17:05	10/16/20 10:38	1
Vanadium	ND		4.0	0.24	ug/L		10/15/20 17:05	10/16/20 10:38	1
Zinc	ND		16	2.6	ug/L		10/15/20 17:05	10/16/20 10:38	1

Lab Sample ID: LCS 460-732030/2-A
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2500	2480		ug/L		99	85 - 115
Antimony	25.0	26.0		ug/L		104	85 - 115
Arsenic	50.0	50.5		ug/L		101	85 - 115
Barium	50.0	49.4		ug/L		99	85 - 115
Beryllium	25.0	24.6		ug/L		98	85 - 115
Cadmium	25.0	24.4		ug/L		98	85 - 115
Calcium	2500	2580		ug/L		103	85 - 115
Chromium	50.0	50.0		ug/L		100	85 - 115
Cobalt	25.0	25.5		ug/L		102	85 - 115
Copper	50.0	50.6		ug/L		101	85 - 115
Iron	2500	2570		ug/L		103	85 - 115
Lead	25.0	23.9		ug/L		96	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-732030/2-A
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	2500	2570		ug/L		103	85 - 115
Manganese	250	247		ug/L		99	85 - 115
Nickel	50.0	42.9		ug/L		86	85 - 115
Potassium	2500	2630		ug/L		105	85 - 115
Selenium	50.0	48.1		ug/L		96	85 - 115
Silver	25.0	24.5		ug/L		98	85 - 115
Sodium	2500	2590		ug/L		104	85 - 115
Thallium	20.0	19.3		ug/L		96	85 - 115
Vanadium	50.0	49.7		ug/L		99	85 - 115
Zinc	250	245		ug/L		98	85 - 115

Lab Sample ID: 460-220372-A-1-B MS
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	600		2500	3210		ug/L		104	70 - 130
Antimony	1.1	J	25.0	28.6		ug/L		110	70 - 130
Arsenic	1.8	J	50.0	53.2		ug/L		103	70 - 130
Barium	11		50.0	62.0		ug/L		102	70 - 130
Beryllium	0.062	J	25.0	27.3		ug/L		109	70 - 130
Cadmium	ND		25.0	25.6		ug/L		102	70 - 130
Calcium	64000		2500	69500	4	ug/L		207	70 - 130
Chromium	5.5		50.0	55.9		ug/L		101	70 - 130
Cobalt	1.7	J	25.0	27.0		ug/L		101	70 - 130
Copper	11		50.0	60.3		ug/L		98	70 - 130
Iron	11000		2500	13600	4	ug/L		111	70 - 130
Lead	1.3		25.0	26.4		ug/L		100	70 - 130
Magnesium	140000		2500	144000	4	ug/L		114	70 - 130
Manganese	210		250	454		ug/L		99	70 - 130
Nickel	ND		50.0	47.9		ug/L		96	70 - 130
Potassium	55000		2500	58500	4	ug/L		127	70 - 130
Selenium	ND		50.0	49.7		ug/L		99	70 - 130
Silver	ND		25.0	24.2		ug/L		97	70 - 130
Thallium	ND		20.0	20.1		ug/L		101	70 - 130
Vanadium	3.3	J	50.0	54.9		ug/L		103	70 - 130
Zinc	64		250	316		ug/L		101	70 - 130

Lab Sample ID: 460-220372-A-1-B MS ^5
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	1400000		2500	1430000	4	ug/L		1024	70 - 130

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-220475-A-6-A DU
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	ND		ND		ug/L		NC	20
Antimony	ND		ND		ug/L		NC	20
Arsenic	ND		ND		ug/L		NC	20
Barium	51		51.3		ug/L		1	20
Beryllium	ND		ND		ug/L		NC	20
Cadmium	ND		ND		ug/L		NC	20
Calcium	34000		33800		ug/L		0	20
Chromium	ND		ND		ug/L		NC	20
Cobalt	ND		ND		ug/L		NC	20
Copper	ND		ND		ug/L		NC	20
Iron	ND		ND		ug/L		NC	20
Lead	ND		ND		ug/L		NC	20
Magnesium	21000		21100		ug/L		0.8	20
Manganese	1.2	J	1.40	J	ug/L		18	20
Nickel	ND		ND		ug/L		NC	20
Potassium	2900		2910		ug/L		1	20
Selenium	0.47	J	0.439	J	ug/L		7	20
Silver	ND		ND		ug/L		NC	20
Sodium	55000		55600		ug/L		1	20
Thallium	ND		ND		ug/L		NC	20
Vanadium	ND		ND		ug/L		NC	20
Zinc	8.8	J	8.29	J	ug/L		6	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 460-732271/1-A
Matrix: Water
Analysis Batch: 732318

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		10/16/20 13:04	10/16/20 13:59	1

Lab Sample ID: LCS 460-732271/2-A
Matrix: Water
Analysis Batch: 732318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	1.08		ug/L		108	85 - 115

Lab Sample ID: 460-220272-G-3-D MS
Matrix: Water
Analysis Batch: 732318

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 732271

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	1.02		ug/L		102	70 - 130

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 460-220272-G-3-C DU
Matrix: Water
Analysis Batch: 732318

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 732271

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		ug/L		NC	20

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 460-732669/1
Matrix: Water
Analysis Batch: 732669

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	ND		5.0	5.0	mg/L			10/18/20 10:37	1
SGT-HEM	ND		5.0	5.0	mg/L			10/18/20 10:37	1

Lab Sample ID: LCS 460-732669/2
Matrix: Water
Analysis Batch: 732669

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM	40.0	34.30		mg/L		86	78 - 114
SGT-HEM	20.0	13.60		mg/L		68	64 - 132

Lab Sample ID: LCSD 460-732669/3
Matrix: Water
Analysis Batch: 732669

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM	40.0	33.10		mg/L		83	78 - 114	4	18
SGT-HEM	20.0	13.50		mg/L		68	64 - 132	1	34

Lab Sample ID: 460-220550-1 MS
Matrix: Water
Analysis Batch: 732669

Client Sample ID: OUTFALL-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM	ND		40.0	33.60		mg/L		84	78 - 114
SGT-HEM	ND		20.0	13.30		mg/L		66	64 - 132

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 460-731991/10
Matrix: Water
Analysis Batch: 731991

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	0.141	J	0.50	0.11	NTU			10/15/20 16:47	1

Method: 180.1 - Turbidity, Nephelometric (Continued)

Lab Sample ID: LCSSRM 460-731991/11
Matrix: Water
Analysis Batch: 731991

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Turbidity	13.0	12.8		NTU		98.5	84.6 - 115.4

Lab Sample ID: 460-220548-W-1 DU
Matrix: Water
Analysis Batch: 731991

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Turbidity	3.4	B	3.35		NTU		0	10

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 460-733490/1-A
Matrix: Water
Analysis Batch: 733672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		50	41	ug/L		10/21/20 10:34	10/21/20 16:31	1

Lab Sample ID: LCS 460-733490/2-A
Matrix: Water
Analysis Batch: 733672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	400	408		ug/L		102	86 - 118

Lab Sample ID: 460-220549-AA-1-C MS
Matrix: Water
Analysis Batch: 733672

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 733490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	ND	F1	400	ND	F1	ug/L		0	86 - 118

Lab Sample ID: 460-220549-AA-1-D MSD
Matrix: Water
Analysis Batch: 733672

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 733490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	ND	F1	400	ND	F1	ug/L		0	86 - 118	NC	30

Lab Sample ID: MRL 460-733672/11
Matrix: Water
Analysis Batch: 733672

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.0500	0.0503		mg/L		101	50 - 150

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 460-733155/1
Matrix: Water
Analysis Batch: 733155

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10000	10000	ug/L			10/20/20 10:42	1

Lab Sample ID: LCSSRM 460-733155/2
Matrix: Water
Analysis Batch: 733155

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			632000	629000		ug/L		99.5	89.9 - 110.0		

Lab Sample ID: 460-220548-W-1 DU
Matrix: Water
Analysis Batch: 733155

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2700000			3080000	F3	ug/L				15	5

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 460-732833/1
Matrix: Water
Analysis Batch: 732833

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2500	2500	ug/L			10/19/20 08:41	1

Lab Sample ID: LCSSRM 460-732833/2
Matrix: Water
Analysis Batch: 732833

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			78700	72000		ug/L		91.5	81.4 - 111.6		

Lab Sample ID: 460-220835-A-10 DU
Matrix: Water
Analysis Batch: 732833

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	1000000			1130000	F3	ug/L				11	5

Method: SM 2540F - Solids, Settleable

Lab Sample ID: MB 460-731981/1
Matrix: Water
Analysis Batch: 731981

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			10/15/20 17:00	1

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220550-1
Project/Site: EMGPRP-31097

Method: SM 4500 H+ B - pH

Lab Sample ID: MB 460-732644/2
Matrix: Water
Analysis Batch: 732644

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.0		0.1	0.1	SU			10/18/20 12:48	1
Temperature	22.1		0.1	0.1	Degrees C			10/18/20 12:48	1

Lab Sample ID: LCSSRM 460-732644/3
Matrix: Water
Analysis Batch: 732644

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			8.31	8.2		SU		98.4	97.6 - 102.4		

Lab Sample ID: 460-220680-H-1 DU
Matrix: Water
Analysis Batch: 732644

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.3			7.3		SU				0.4	10
Temperature	20.3			20.3		Degrees C				0	

GC/MS VOA

Analysis Batch: 732173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	8260C	
460-220550-2	QAQC_TB	Total/NA	Water	8260C	
MB 460-732173/10	Method Blank	Total/NA	Water	8260C	
LCS 460-732173/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-732173/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 732803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	624.1	
460-220550-2	QAQC_TB	Total/NA	Water	624.1	
MB 460-732803/8	Method Blank	Total/NA	Water	624.1	
LCS 460-732803/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-732803/5	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 732660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	625	
MB 460-732660/1-A	Method Blank	Total/NA	Water	625	
LCS 460-732660/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 460-732660/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 732730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	625.1	732660
MB 460-732660/1-A	Method Blank	Total/NA	Water	625.1	732660
LCS 460-732660/2-A	Lab Control Sample	Total/NA	Water	625.1	732660
LCSD 460-732660/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	732660

HPLC/IC

Analysis Batch: 732552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	300.0	
MB 460-732552/3	Method Blank	Total/NA	Water	300.0	
LCS 460-732552/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-732552/6	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 732030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total Recoverable	Water	200.8	
MB 460-732030/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 460-732030/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
460-220372-A-1-B MS	Matrix Spike	Total Recoverable	Water	200.8	
460-220372-A-1-B MS ^5	Matrix Spike	Total Recoverable	Water	200.8	
460-220475-A-6-A DU	Duplicate	Total Recoverable	Water	200.8	

Metals

Analysis Batch: 732253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total Recoverable	Water	200.8	732030
460-220550-1	OUTFALL-01A	Total Recoverable	Water	200.8	732030
MB 460-732030/1-A	Method Blank	Total Recoverable	Water	200.8	732030
LCS 460-732030/2-A	Lab Control Sample	Total Recoverable	Water	200.8	732030
460-220372-A-1-B MS	Matrix Spike	Total Recoverable	Water	200.8	732030
460-220372-A-1-B MS ^5	Matrix Spike	Total Recoverable	Water	200.8	732030
460-220475-A-6-A DU	Duplicate	Total Recoverable	Water	200.8	732030

Prep Batch: 732271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	245.1	
MB 460-732271/1-A	Method Blank	Total/NA	Water	245.1	
LCS 460-732271/2-A	Lab Control Sample	Total/NA	Water	245.1	
460-220272-G-3-D MS	Matrix Spike	Total/NA	Water	245.1	
460-220272-G-3-C DU	Duplicate	Total/NA	Water	245.1	

Analysis Batch: 732318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	245.1	732271
MB 460-732271/1-A	Method Blank	Total/NA	Water	245.1	732271
LCS 460-732271/2-A	Lab Control Sample	Total/NA	Water	245.1	732271
460-220272-G-3-D MS	Matrix Spike	Total/NA	Water	245.1	732271
460-220272-G-3-C DU	Duplicate	Total/NA	Water	245.1	732271

General Chemistry

Analysis Batch: 731981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	SM 2540F	
MB 460-731981/1	Method Blank	Total/NA	Water	SM 2540F	

Analysis Batch: 731991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	180.1	
MB 460-731991/10	Method Blank	Total/NA	Water	180.1	
LCSSRM 460-731991/11	Lab Control Sample	Total/NA	Water	180.1	
460-220548-W-1 DU	Duplicate	Total/NA	Water	180.1	

Analysis Batch: 732644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	SM 4500 H+ B	
MB 460-732644/2	Method Blank	Total/NA	Water	SM 4500 H+ B	
LCSSRM 460-732644/3	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
460-220680-H-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 732669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	1664A	
MB 460-732669/1	Method Blank	Total/NA	Water	1664A	
LCS 460-732669/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 460-732669/3	Lab Control Sample Dup	Total/NA	Water	1664A	

General Chemistry (Continued)

Analysis Batch: 732669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1 MS	OUTFALL-01A	Total/NA	Water	1664A	

Analysis Batch: 732833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	SM 2540D	
MB 460-732833/1	Method Blank	Total/NA	Water	SM 2540D	
LCSSRM 460-732833/2	Lab Control Sample	Total/NA	Water	SM 2540D	
460-220835-A-10 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 733155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	SM 2540C	
MB 460-733155/1	Method Blank	Total/NA	Water	SM 2540C	
LCSSRM 460-733155/2	Lab Control Sample	Total/NA	Water	SM 2540C	
460-220548-W-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Prep Batch: 733490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	Distill/Phenol	
MB 460-733490/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 460-733490/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
460-220549-AA-1-C MS	Matrix Spike	Total/NA	Water	Distill/Phenol	
460-220549-AA-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	Distill/Phenol	

Analysis Batch: 733672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	420.1	733490
MB 460-733490/1-A	Method Blank	Total/NA	Water	420.1	733490
LCS 460-733490/2-A	Lab Control Sample	Total/NA	Water	420.1	733490
MRL 460-733672/11	Lab Control Sample	Total/NA	Water	420.1	
460-220549-AA-1-C MS	Matrix Spike	Total/NA	Water	420.1	733490
460-220549-AA-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	420.1	733490

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220550-1

Client Sample ID: OUTFALL-01A

Lab Sample ID: 460-220550-1

Date Collected: 10/14/20 09:10
Date Received: 10/14/20 19:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	732803	10/19/20 17:57	CJM	TAL EDI
Total/NA	Analysis	8260C		1	732173	10/16/20 12:01	CJM	TAL EDI
Total/NA	Prep	625			732660	10/18/20 09:14	DXD	TAL EDI
Total/NA	Analysis	625.1		1	732730	10/18/20 22:38	YAH	TAL EDI
Total/NA	Analysis	300.0		17	732552	10/17/20 09:48	CDC	TAL EDI
Total Recoverable	Prep	200.8			732030	10/15/20 17:05	GAE	TAL EDI
Total Recoverable	Analysis	200.8		1	732253	10/16/20 13:39	MDC	TAL EDI
Total Recoverable	Prep	200.8			732030	10/15/20 17:05	GAE	TAL EDI
Total Recoverable	Analysis	200.8		5	732253	10/16/20 14:09	MDC	TAL EDI
Total/NA	Prep	245.1			732271	10/16/20 13:04	RBS	TAL EDI
Total/NA	Analysis	245.1		1	732318	10/16/20 14:25	RBS	TAL EDI
Total/NA	Analysis	1664A		1	732669	10/18/20 10:37	AAA	TAL EDI
Total/NA	Analysis	180.1		1	731991	10/15/20 16:47	VBG	TAL EDI
Total/NA	Prep	Distill/Phenol			733490	10/21/20 10:34	RAK	TAL EDI
Total/NA	Analysis	420.1		1	733672	10/21/20 16:31	HTV	TAL EDI
Total/NA	Analysis	SM 2540C		1	733155	10/20/20 10:42	PLS	TAL EDI
Total/NA	Analysis	SM 2540D		1	732833	10/19/20 08:41	PLS	TAL EDI
Total/NA	Analysis	SM 2540F		1	731981	10/15/20 17:00	VBG	TAL EDI
Total/NA	Analysis	SM 4500 H+ B		1	732644	10/18/20 13:36	AAP	TAL EDI

Client Sample ID: QAQC_TB

Lab Sample ID: 460-220550-2

Date Collected: 10/14/20 09:10
Date Received: 10/14/20 19:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	732803	10/19/20 17:33	CJM	TAL EDI
Total/NA	Analysis	8260C		1	732173	10/16/20 11:12	CJM	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220550-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

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
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	4-Methyl-2-pentanone (MIBK)
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Diisopropyl ether
624.1		Water	Ethyl acetate
624.1		Water	Hexachlorobutadiene
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	sec-Butylbenzene
624.1		Water	tert-Butylbenzene
625.1	625	Water	1,1'-Biphenyl
625.1	625	Water	1,2,4,5-Tetrachlorobenzene
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
625.1	625	Water	1,4-Dioxane

Laboratory: Eurofins TestAmerica, Edison (Continued)

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

625.1	625	Water	1-Methylnaphthalene
625.1	625	Water	2,3,4,6-Tetrachlorophenol
625.1	625	Water	2-Methylnaphthalene
625.1	625	Water	2-Nitroaniline
625.1	625	Water	3-Nitroaniline
625.1	625	Water	4-Chloroaniline
625.1	625	Water	4-Nitroaniline
625.1	625	Water	Benzoic acid
625.1	625	Water	Benzyl alcohol
625.1	625	Water	Dibenzofuran
625.1	625	Water	Diphenyl ether
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220550-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
200.8	Metals (ICP/MS)	EPA	TAL EDI
245.1	Mercury (CVAA)	EPA	TAL EDI
1664A	HEM and SGT-HEM	1664A	TAL EDI
180.1	Turbidity, Nephelometric	MCAWW	TAL EDI
420.1	Phenolics, Total Recoverable	MCAWW	TAL EDI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL EDI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL EDI
SM 2540F	Solids, Settleable	SM	TAL EDI
SM 4500 H+ B	pH	SM	TAL EDI
200.8	Preparation, Total Recoverable Metals	EPA	TAL EDI
245.1	Preparation, Mercury	EPA	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
625	Liquid-Liquid Extraction	40CFR136A	TAL EDI
Distill/Phenol	Distillation, Phenolics	None	TAL EDI

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220550-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-220550-1	OUTFALL-01A	Water	10/14/20 09:10	10/14/20 19:00	
460-220550-2	QAQC_TB	Water	10/14/20 09:10	10/14/20 19:00	

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: TG	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-130510-84480.1
Client Contact: Matthew Mueller	Phone:	E-Mail: Melissa.Haas@Eurofinset.com		Page: Page 1 of 1
Company: Roux Environmental Eng & Geology DPC				Job #: 220550
Address: 209 Shafter St	Due Date Requested:			
City: Islandia	TAT Requested (days): 5 Day (See comments)			
State, Zip: NY, 11749				
Phone: 716-472-2725(Tel)	PO #: 0172.0030Y060			
Email: mmueller@rouxinc.com	WO #:			
Project Name: EMGPRP-31097	Project #: 46032869			
Analysis Group: Annual Performance Sampling	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Volatile Organic Compounds Method:624.1_PREC	Volatile Organic Compounds (MEK, MTBE, Acetone) Method: 8260C	GRO Method: 8015D_GRO	ORO/DRO Method: 8015D-DRO	Semivolatile Organic Compounds Method: 625.1_PREC	Metals (TAL) Method: 200.8	Mercury Method: 245.1	Langalier Index Method: 203	Anions, Ion Chromatography Method: 300_ORGFM_28D	Nitrogen, Total Kjeldahl Method: 351.2	Nitrogen, Nitrate-Nitrite Method: 353.2	Phosphorus Method: 4500_P_E	Phenolics, Total Recoverable Method: 420.1	HEM and SGT-HEM Method: 1664A_NP	pH Method: SM4500_H+	COD Method: 410.4	Turbidity, Nephelometric Method: 180.1	Alkalinity Method: 2320B	Hardness, Total (mg/l as CaCO3) Method: 2340C	Conductivity, Specific Conductance Method: 2510B	Solids, Total Dissolved (TDS) Method: 2540C	Solids, Total Suspended (TSS) Method: 2540D	Solids, Settleable Method: SM2540F	BOD, 5-Day Method: 5210B	Dissolved Gases (GC) (Methane, Ethane, Ethene) Method: RSK_175	Organochlorine Pesticides in Water Method: 608.3_PREC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	N	N	D	D	N	N	S	N	S	S	A	N	S	N	N	N	N	N	N	N	N	A	N		
OUTFALL-01A	10/14/20	9:10	G	W	N	N	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	28	Methods 203, 351.2, 353.2, 4500_P_E, 410.3, 2320B, 2340C, 2510B, 5210B, RSK_175, 608.3_PREC to be reported separately (10 Day TAT) Field Temp: 17.35°C Field pH: 7.85
QAQC_TB	10/9/20			W			X	X																							X		4	Trip Blank 2

460-220550 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify): Level 2, EDD (EQuIS and Excel)	Special Instructions/QC Requirements: **NOTE SHORT HOLDS**

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Natalie B	10/14/2020 16:00	Roux	Kamal	10/14/20 1600	TA
Kamal	10/14/20 1900	TA	Joseph	10/14/20 1900	TAEdi
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 002255	Cooler Temperature(s) °C and Other Remarks: 1.6°C IR1

Ver: 01/16/2019

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 220550

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.6 °C	°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1		<2		<2	<2			<2		<2			<2		

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: K.A. Date: 10/14/20

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-220550-1

Login Number: 220550
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-220550-2
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

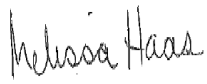
Attn: Matthew Mueller

Melissa Haas

Authorized for release by:
10/27/2020 3:41:45 PM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/27/2020 3:41:45 PM

Table of Contents

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220550-2
Project/Site: EMGPRP-31097

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 460-220550-2

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: EMGPRP-31097

Report Number: 460-220550-2

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 10/14/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions

Per laboratory policy the trip blank sample date/time was changed to reflect the latest sample date/time of the sampling event. The client confirmed that RSK is not needed for the trip blank.

The following sample was analyzed for COD by method 410.4 due to chloride <1000 mg/L. OUTFALL-01A (460-220550-1)

DISSOLVED GASES
Sample OUTFALL-01A (460-220550-1) was analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/21/2020.

No difficulties were encountered during the dissolved gases analysis.

All quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES AND POLYCHLORINATED BIPHENYLS BY GAS CHROMATOGRAPHY
Sample OUTFALL-01A (460-220550-1) was analyzed for Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography in accordance with 608.3. The samples were prepared on 10/15/2020 and analyzed on 10/19/2020.

No difficulties were encountered during the Pesticides/PCBs analysis.

All quality control parameters were within the acceptance limits.

Job ID: 460-220550-2 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

LANGLIER INDEX
Sample OUTFALL-01A (460-220550-1) was analyzed for Langlier Index in accordance with SM203. The samples were analyzed on 10/22/2020.

No difficulties were encountered during the Langlier Index analysis.

All quality control parameters were within the acceptance limits.

ALKALINITY
Sample OUTFALL-01A (460-220550-1) was analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 10/15/2020.

No difficulties were encountered during the alkalinity analysis.

All quality control parameters were within the acceptance limits.

HARDNESS
Sample OUTFALL-01A (460-220550-1) was analyzed for hardness in accordance with SM 2340C. The samples were analyzed on 10/22/2020.

No difficulties were encountered during the hardness analysis.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTANCE
Sample OUTFALL-01A (460-220550-1) was analyzed for specific conductance in accordance with SM 2510B. The samples were analyzed on 10/17/2020.

No difficulties were encountered during the specific conductance analysis.

All quality control parameters were within the acceptance limits.

TOTAL KJELDAHL NITROGEN
Sample OUTFALL-01A (460-220550-1) was analyzed for total kjeldahl nitrogen in accordance with EPA Method 351.2. The samples were prepared on 10/25/2020 and analyzed on 10/26/2020.

Total Kjeldahl Nitrogen failed the recovery criteria low for the MS of sample 460-220548-1 in batch 480-555780.

Refer to the QC report for details.

No other difficulties were encountered during the TKN analysis.

All other quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN
Sample OUTFALL-01A (460-220550-1) was analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 10/15/2020.

No difficulties were encountered during the nitrate-nitrite analysis.

All quality control parameters were within the acceptance limits.

CHEMICAL OXYGEN DEMAND
Sample OUTFALL-01A (460-220550-1) was analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples

Job ID: 460-220550-2 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

were analyzed on 10/23/2020.

No difficulties were encountered during the COD analysis.

All quality control parameters were within the acceptance limits.

PHOSPHORUS AS P

Sample OUTFALL-01A (460-220550-1) was analyzed for phosphorus as P in accordance with SM 4500 P E. The samples were prepared and analyzed on 10/17/2020.

No difficulties were encountered during the phosphorus analysis.

All quality control parameters were within the acceptance limits.

BIOCHEMICAL OXYGEN DEMAND 5 DAY

Sample OUTFALL-01A (460-220550-1) was analyzed for Biochemical Oxygen Demand 5 Day in accordance with SM 5210B. The samples were analyzed on 10/15/2020.

No difficulties were encountered during the BOD5 analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220550-2
Project/Site: EMGPRP-31097

Client Sample ID: OUTFALL-01A
Lab Sample ID: 460-220550-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Langelier Index	0.85				LangSU	1		203	Total/NA
Total Kjeldahl Nitrogen	470		200	180	ug/L	1		351.2	Total/NA
Nitrate as N	1100		100	16	ug/L	1		353.2	Total/NA
Nitrate Nitrite as N	1200		100	22	ug/L	1		353.2	Total/NA
Nitrite as N	82	J	100	10	ug/L	1		353.2	Total/NA
Chemical Oxygen Demand	15000		10000	3300	ug/L	1		410.4	Total/NA
Total Alkalinity	360000		5000	5000	ug/L	1		SM 2320B	Total/NA
Hardness as calcium carbonate	800000		25000	25000	ug/L	1		SM 2340C	Total/NA
Specific Conductance	4200		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA
Phosphorus as P	250		30	23	ug/L	1		SM 4500 P E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OUTFALL-01A
Lab Sample ID: 460-220550-1

Date Collected: 10/14/20 09:10
Matrix: Water
Date Received: 10/14/20 19:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/21/20 15:38	1
Ethene	ND		7.0	1.5	ug/L			10/21/20 15:38	1
Methane	ND		4.0	1.0	ug/L			10/21/20 15:38	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.040	0.0040	ug/L		10/15/20 14:41	10/19/20 11:55	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/15/20 14:41	10/19/20 11:55	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 11:55	1
Aldrin	ND		0.020	0.0030	ug/L		10/15/20 14:41	10/19/20 11:55	1
alpha-BHC	ND		0.020	0.013	ug/L		10/15/20 14:41	10/19/20 11:55	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 11:55	1
beta-BHC	ND		0.030	0.013	ug/L		10/15/20 14:41	10/19/20 11:55	1
Chlordane	ND		0.50	0.22	ug/L		10/15/20 14:41	10/19/20 11:55	1
delta-BHC	ND		0.020	0.0020	ug/L		10/15/20 14:41	10/19/20 11:55	1
Dieldrin	ND		0.020	0.0080	ug/L		10/15/20 14:41	10/19/20 11:55	1
Endosulfan I	ND		0.030	0.023	ug/L		10/15/20 14:41	10/19/20 11:55	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 11:55	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 11:55	1
Endrin	ND		0.030	0.025	ug/L		10/15/20 14:41	10/19/20 11:55	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 11:55	1
Endrin ketone	ND		0.030	0.014	ug/L		10/15/20 14:41	10/19/20 11:55	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 11:55	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/15/20 14:41	10/19/20 11:55	1
Heptachlor	ND		0.030	0.0080	ug/L		10/15/20 14:41	10/19/20 11:55	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 11:55	1
Methoxychlor	ND		0.040	0.036	ug/L		10/15/20 14:41	10/19/20 11:55	1
Toxaphene	ND		0.50	0.035	ug/L		10/15/20 14:41	10/19/20 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*10 - 150*	*10/15/20 14:41*	*10/19/20 11:55*	*1*
DCB Decachlorobiphenyl	*76*		*10 - 150*	*10/15/20 14:41*	*10/19/20 11:55*	*1*
Tetrachloro-m-xylene	*94*		*10 - 150*	*10/15/20 14:41*	*10/19/20 11:55*	*1*
Tetrachloro-m-xylene	*76*		*10 - 150*	*10/15/20 14:41*	*10/19/20 11:55*	*1*

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Langelier Index	**0.85**				LangSU			10/22/20 11:18	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	**470**		200	180	ug/L		10/25/20 10:41	10/26/20 09:15	1
Nitrate as N	**1100**		100	16	ug/L			10/15/20 20:23	1
Nitrate Nitrite as N	**1200**		100	22	ug/L			10/15/20 20:23	1
Nitrite as N	**82**	**J**	100	10	ug/L			10/15/20 20:23	1
Chemical Oxygen Demand	**15000**		10000	3300	ug/L			10/23/20 14:23	1
Phosphorus as P	**250**		30	23	ug/L		10/17/20 12:00	10/17/20 14:30	1
Biochemical Oxygen Demand	ND		1000	1000	ug/L			10/15/20 15:27	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	**360000**		5000	5000	ug/L			10/15/20 06:17	1
Hardness as calcium carbonate	**800000**		25000	25000	ug/L			10/22/20 18:45	1
Specific Conductance	**4200**		1.0	1.0	umhos/cm			10/17/20 11:30	1

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220550-2

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCBP1	DCBP2	TCX1	TCX2				
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(10-150)	(10-150)				
460-220550-1	OUTFALL-01A	76	94	76	94				
LCS 460-731940/2-A	Lab Control Sample	86	78	83	80				
LCS 460-731940/6-A	Lab Control Sample	86	75	89	102				
LCSD 460-731940/3-A	Lab Control Sample Dup	85	81	87	84				
LCSD 460-731940/7-A	Lab Control Sample Dup	81	76	90	109				
MB 460-731940/1-A	Method Blank	86	82	83	84				

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-554924/3
Matrix: Water
Analysis Batch: 554924

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/21/20 08:24	1
Ethene	ND		7.0	1.5	ug/L			10/21/20 08:24	1
Methane	ND		4.0	1.0	ug/L			10/21/20 08:24	1

Lab Sample ID: LCS 480-554924/4
Matrix: Water
Analysis Batch: 554924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	34.8		ug/L		95	79 - 120
Ethene	33.7	32.7		ug/L		97	85 - 120
Methane	19.2	17.9		ug/L		93	85 - 120

Lab Sample ID: LCSD 480-554924/5
Matrix: Water
Analysis Batch: 554924

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	36.8	35.5		ug/L		97	79 - 120	2	50
Ethene	33.7	33.2		ug/L		98	85 - 120	2	50
Methane	19.2	18.2		ug/L		95	85 - 120	2	50

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Lab Sample ID: MB 460-731940/1-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.040	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
4,4'-DDD	ND		0.040	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/15/20 14:41	10/19/20 09:22	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/15/20 14:41	10/19/20 09:22	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
Aldrin	ND		0.020	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
Aldrin	ND		0.020	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
alpha-BHC	ND		0.020	0.013	ug/L		10/15/20 14:41	10/19/20 09:22	1
alpha-BHC	ND		0.020	0.013	ug/L		10/15/20 14:41	10/19/20 09:22	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
beta-BHC	ND		0.030	0.013	ug/L		10/15/20 14:41	10/19/20 09:22	1
beta-BHC	ND		0.030	0.013	ug/L		10/15/20 14:41	10/19/20 09:22	1
Chlordane	ND		0.50	0.22	ug/L		10/15/20 14:41	10/19/20 09:22	1
Chlordane	ND		0.50	0.22	ug/L		10/15/20 14:41	10/19/20 09:22	1
delta-BHC	ND		0.020	0.0020	ug/L		10/15/20 14:41	10/19/20 09:22	1
delta-BHC	ND		0.020	0.0020	ug/L		10/15/20 14:41	10/19/20 09:22	1
Dieldrin	ND		0.020	0.0080	ug/L		10/15/20 14:41	10/19/20 09:22	1
Dieldrin	ND		0.020	0.0080	ug/L		10/15/20 14:41	10/19/20 09:22	1

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: MB 460-731940/1-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.030	0.023	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endosulfan I	ND		0.030	0.023	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin	ND		0.030	0.025	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin	ND		0.030	0.025	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin ketone	ND		0.030	0.014	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin ketone	ND		0.030	0.014	ug/L		10/15/20 14:41	10/19/20 09:22	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/15/20 14:41	10/19/20 09:22	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/15/20 14:41	10/19/20 09:22	1
Heptachlor	ND		0.030	0.0080	ug/L		10/15/20 14:41	10/19/20 09:22	1
Heptachlor	ND		0.030	0.0080	ug/L		10/15/20 14:41	10/19/20 09:22	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
Methoxychlor	ND		0.040	0.036	ug/L		10/15/20 14:41	10/19/20 09:22	1
Methoxychlor	ND		0.040	0.036	ug/L		10/15/20 14:41	10/19/20 09:22	1
Toxaphene	ND		0.50	0.035	ug/L		10/15/20 14:41	10/19/20 09:22	1
Toxaphene	ND		0.50	0.035	ug/L		10/15/20 14:41	10/19/20 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*10 - 150*	*10/15/20 14:41*	*10/19/20 09:22*	*1*
DCB Decachlorobiphenyl	*86*		*10 - 150*	*10/15/20 14:41*	*10/19/20 09:22*	*1*
Tetrachloro-m-xylene	*84*		*10 - 150*	*10/15/20 14:41*	*10/19/20 09:22*	*1*
Tetrachloro-m-xylene	*83*		*10 - 150*	*10/15/20 14:41*	*10/19/20 09:22*	*1*

Lab Sample ID: LCS 460-731940/2-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.800	0.817		ug/L		102	31 - 141
4,4'-DDD	0.800	0.878		ug/L		110	31 - 141
4,4'-DDE	0.800	0.874		ug/L		109	30 - 145
4,4'-DDE	0.800	0.888		ug/L		111	30 - 145
4,4'-DDT	0.800	0.784		ug/L		98	25 - 160
4,4'-DDT	0.800	0.874		ug/L		109	25 - 160
Aldrin	0.800	0.948		ug/L		119	42 - 140
Aldrin	0.800	0.918		ug/L		115	42 - 140
alpha-BHC	0.800	0.862		ug/L		108	37 - 140
alpha-BHC	0.800	0.878		ug/L		110	37 - 140
alpha-Chlordane	0.800	0.782		ug/L		98	45 - 140
alpha-Chlordane	0.800	0.900		ug/L		112	45 - 140

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCS 460-731940/2-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	0.800	0.800		ug/L		100	17 - 147
beta-BHC	0.800	0.840		ug/L		105	17 - 147
delta-BHC	0.800	0.963		ug/L		120	19 - 140
delta-BHC	0.800	0.936		ug/L		117	19 - 140
Dieldrin	0.800	0.833		ug/L		104	36 - 146
Dieldrin	0.800	0.869		ug/L		109	36 - 146
Endosulfan I	0.800	0.859		ug/L		107	45 - 153
Endosulfan I	0.800	0.952		ug/L		119	45 - 153
Endosulfan II	0.800	0.835		ug/L		104	0.1 - 202
Endosulfan II	0.800	0.866		ug/L		108	0.1 - 202
Endosulfan sulfate	0.800	0.856		ug/L		107	26 - 144
Endosulfan sulfate	0.800	1.06		ug/L		132	26 - 144
Endrin	0.800	0.877		ug/L		110	30 - 147
Endrin	0.800	0.863		ug/L		108	30 - 147
Endrin aldehyde	0.800	0.826		ug/L		103	60 - 150
Endrin aldehyde	0.800	0.815		ug/L		102	60 - 150
Endrin ketone	0.800	1.26	*	ug/L		158	17 - 150
Endrin ketone	0.800	0.846		ug/L		106	17 - 150
gamma-BHC (Lindane)	0.800	0.899		ug/L		112	32 - 140
gamma-BHC (Lindane)	0.800	0.856		ug/L		107	32 - 140
gamma-Chlordane	0.800	0.823		ug/L		103	45 - 140
gamma-Chlordane	0.800	0.889		ug/L		111	45 - 140
Heptachlor	0.800	0.703		ug/L		88	34 - 140
Heptachlor	0.800	0.782		ug/L		98	34 - 140
Heptachlor epoxide	0.800	0.823		ug/L		103	37 - 142
Heptachlor epoxide	0.800	0.871		ug/L		109	37 - 142
Methoxychlor	0.800	0.620		ug/L		78	64 - 150
Methoxychlor	0.800	0.707		ug/L		88	64 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*78*		*10 - 150*
DCB Decachlorobiphenyl	*86*		*10 - 150*
Tetrachloro-m-xylene	*80*		*10 - 150*
Tetrachloro-m-xylene	*83*		*10 - 150*

Lab Sample ID: LCS 460-731940/6-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlordane	8.00	8.56		ug/L		107	45 - 119
Chlordane	8.00	8.93		ug/L		112	45 - 119
Toxaphene	8.00	6.63		ug/L		83	41 - 140
Toxaphene	8.00	6.47		ug/L		81	41 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*75*		*10 - 150*
DCB Decachlorobiphenyl	*86*		*10 - 150*

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCS 460-731940/6-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731940

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*102*		*10 - 150*
Tetrachloro-m-xylene	*89*		*10 - 150*

Lab Sample ID: LCSD 460-731940/3-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731940

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.800	0.859		ug/L		107	31 - 141	5	39
4,4'-DDD			0.800	0.931		ug/L		116	31 - 141	6	39
4,4'-DDE			0.800	0.918		ug/L		115	30 - 145	5	35
4,4'-DDE			0.800	0.953		ug/L		119	30 - 145	7	35
4,4'-DDT			0.800	0.821		ug/L		103	25 - 160	5	32
4,4'-DDT			0.800	0.866		ug/L		108	25 - 160	1	32
Aldrin			0.800	0.991		ug/L		124	42 - 140	4	35
Aldrin			0.800	0.940		ug/L		118	42 - 140	2	35
alpha-BHC			0.800	0.932		ug/L		117	37 - 140	6	36
alpha-BHC			0.800	0.917		ug/L		115	37 - 140	6	36
alpha-Chlordane			0.800	0.804		ug/L		100	45 - 140	3	35
alpha-Chlordane			0.800	0.928		ug/L		116	45 - 140	3	35
beta-BHC			0.800	0.847		ug/L		106	17 - 147	6	44
beta-BHC			0.800	0.864		ug/L		108	17 - 147	3	44
delta-BHC			0.800	0.995		ug/L		124	19 - 140	3	52
delta-BHC			0.800	0.964		ug/L		121	19 - 140	3	52
Dieldrin			0.800	0.867		ug/L		108	36 - 146	4	49
Dieldrin			0.800	0.879		ug/L		110	36 - 146	1	49
Endosulfan I			0.800	0.898		ug/L		112	45 - 153	4	28
Endosulfan I			0.800	0.941		ug/L		118	45 - 153	1	28
Endosulfan II			0.800	0.869		ug/L		109	0.1 - 202	0	53
Endosulfan II			0.800	0.867		ug/L		108	0.1 - 202	4	53
Endosulfan sulfate			0.800	0.885		ug/L		111	26 - 144	3	38
Endosulfan sulfate			0.800	1.00		ug/L		125	26 - 144	5	38
Endrin			0.800	0.890		ug/L		111	30 - 147	1	48
Endrin			0.800	0.843		ug/L		105	30 - 147	2	48
Endrin aldehyde			0.800	0.873		ug/L		109	60 - 150	6	40
Endrin aldehyde			0.800	0.821		ug/L		103	60 - 150	1	40
Endrin ketone			0.800	1.31	*	ug/L		163	17 - 150	4	40
Endrin ketone			0.800	0.855		ug/L		107	17 - 150	1	40
gamma-BHC (Lindane)			0.800	0.939		ug/L		117	32 - 140	4	39
gamma-BHC (Lindane)			0.800	0.895		ug/L		112	32 - 140	4	39
gamma-Chlordane			0.800	0.858		ug/L		107	45 - 140	4	35
gamma-Chlordane			0.800	0.915		ug/L		114	45 - 140	3	35
Heptachlor			0.800	0.751		ug/L		94	34 - 140	7	43
Heptachlor			0.800	0.814		ug/L		102	34 - 140	4	43
Heptachlor epoxide			0.800	0.863		ug/L		108	37 - 142	5	26
Heptachlor epoxide			0.800	0.894		ug/L		112	37 - 142	3	26
Methoxychlor			0.800	0.648		ug/L		81	64 - 150	4	40
Methoxychlor			0.800	0.705		ug/L		88	64 - 150	0	40

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCSD 460-731940/3-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731940

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*10 - 150*
DCB Decachlorobiphenyl	*85*		*10 - 150*
Tetrachloro-m-xylene	*84*		*10 - 150*
Tetrachloro-m-xylene	*87*		*10 - 150*

Lab Sample ID: LCSD 460-731940/7-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731940

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlordane			8.00	8.01		ug/L		100	45 - 119	7	42
Chlordane			8.00	8.58		ug/L		107	45 - 119	4	42
Toxaphene			8.00	6.21		ug/L		78	41 - 140	7	41
Toxaphene			8.00	6.06		ug/L		76	41 - 140	7	41

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*10 - 150*
DCB Decachlorobiphenyl	*81*		*10 - 150*
Tetrachloro-m-xylene	*109*		*10 - 150*
Tetrachloro-m-xylene	*90*		*10 - 150*

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-555644/1-A
Matrix: Water
Analysis Batch: 555780

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		200	180	ug/L		10/25/20 10:41	10/26/20 08:49	1

Lab Sample ID: LCS 480-555644/2-A
Matrix: Water
Analysis Batch: 555780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555644

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen			2500	2390		ug/L		96	90 - 110

Lab Sample ID: 460-220548-O-1-B MS
Matrix: Water
Analysis Batch: 555780

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 555644

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	680	F1	1000	1510	F1	ug/L		83	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 460-220549-Q-1-B DU
Matrix: Water
Analysis Batch: 555780

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 555644

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	1400		1540		ug/L		9	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 460-732089/14
Matrix: Water
Analysis Batch: 732089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		100	16	ug/L			10/15/20 20:10	1
Nitrate Nitrite as N	ND		100	22	ug/L			10/15/20 20:10	1
Nitrite as N	ND		100	10	ug/L			10/15/20 20:10	1

Lab Sample ID: LCSSRM 460-732089/15
Matrix: Water
Analysis Batch: 732089

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1160	1160		ug/L		100.2	81.6 - 117.5
Nitrate Nitrite as N	1160	1160		ug/L		100.2	81.6 - 117.5

Lab Sample ID: LCSSRM 460-732089/16
Matrix: Water
Analysis Batch: 732089

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	720	604		ug/L		83.9	77.8 - 120.8

Lab Sample ID: 460-220554-N-15 MS
Matrix: Water
Analysis Batch: 732089

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	30	J	500	500		ug/L		94	85 - 115
Nitrate Nitrite as N	30	J	1000	1050		ug/L		102	85 - 115
Nitrite as N	ND		500	550		ug/L		110	79 - 121

Lab Sample ID: 460-220554-N-15 MSD
Matrix: Water
Analysis Batch: 732089

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	30	J	500	506		ug/L		95	85 - 115	1	18
Nitrate Nitrite as N	30	J	1000	1050		ug/L		102	85 - 115	0	10
Nitrite as N	ND		500	544		ug/L		109	79 - 121	1	10

Method: 410.4 - COD

Lab Sample ID: MB 460-734246/3
Matrix: Water
Analysis Batch: 734246

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10000	3300	ug/L			10/23/20 14:23	1

Lab Sample ID: LCSSRM 460-734246/4
Matrix: Water
Analysis Batch: 734246

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			117000	113000		ug/L		96.7	77.2 - 118.8		

Lab Sample ID: 460-220967-A-2 MS
Matrix: Water
Analysis Batch: 734246

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	34000		50000	80300		ug/L		93	90 - 110		

Lab Sample ID: 460-220967-A-2 MSD
Matrix: Water
Analysis Batch: 734246

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	34000		50000	80000		ug/L		92	90 - 110	0	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 460-731959/25
Matrix: Water
Analysis Batch: 731959

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5000	5000	ug/L			10/15/20 03:59	1

Lab Sample ID: LCSSRM 460-731959/26
Matrix: Water
Analysis Batch: 731959

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Alkalinity			66800	66000		ug/L		98.7	85.0 - 115.0		

Lab Sample ID: 460-220519-C-1 DU
Matrix: Water
Analysis Batch: 731959

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	12000			12200		ug/L				5	10

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 460-733980/24
Matrix: Water
Analysis Batch: 733980

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		5000	5000	ug/L			10/22/20 18:45	1

Lab Sample ID: LCSSRM 460-733980/25
Matrix: Water
Analysis Batch: 733980

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	370000	380000		ug/L		102.7	85.1 - 115.1

Lab Sample ID: 460-220550-1 DU
Matrix: Water
Analysis Batch: 733980

Client Sample ID: OUTFALL-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hardness as calcium carbonate	800000		800000		ug/L		0	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 460-732502/34
Matrix: Water
Analysis Batch: 732502

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			10/17/20 11:30	1

Lab Sample ID: LCSSRM 460-732502/35
Matrix: Water
Analysis Batch: 732502

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	691	714		umhos/cm		103.4	90.0 - 110.1

Lab Sample ID: 460-220101-H-1 DU
Matrix: Water
Analysis Batch: 732502

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	960		965		umhos/cm		0.1	2

Method: SM 4500 P E - Phosphorus

Lab Sample ID: 460-220548-V-1-B MS
Matrix: Water
Analysis Batch: 732588

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 732587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus as P	260		200	443		ug/L		92	90 - 110

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: 460-220548-V-1-C MSD
Matrix: Water
Analysis Batch: 732588

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 732587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus as P	260		200	446		ug/L		93	90 - 110	1	10

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 460-731894/24
Matrix: Water
Analysis Batch: 731894

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		1000	1000	ug/L			10/15/20 12:45	1

Lab Sample ID: LCS 460-731894/25
Matrix: Water
Analysis Batch: 731894

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Biochemical Oxygen Demand			129000	135000		ug/L		105	84.6 - 115.4		

Lab Sample ID: 460-220554-AF-15 DU
Matrix: Water
Analysis Batch: 731894

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	1800			1800		ug/L				0	30

GC VOA

Analysis Batch: 554924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	RSK-175	
MB 480-554924/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-554924/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-554924/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

GC Semi VOA

Prep Batch: 731940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	608	
MB 460-731940/1-A	Method Blank	Total/NA	Water	608	
LCS 460-731940/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 460-731940/6-A	Lab Control Sample	Total/NA	Water	608	
LCSD 460-731940/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 460-731940/7-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 732814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-731940/1-A	Method Blank	Total/NA	Water	608.3	731940
LCS 460-731940/2-A	Lab Control Sample	Total/NA	Water	608.3	731940
LCS 460-731940/6-A	Lab Control Sample	Total/NA	Water	608.3	731940
LCSD 460-731940/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	731940
LCSD 460-731940/7-A	Lab Control Sample Dup	Total/NA	Water	608.3	731940

Analysis Batch: 732876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	608.3	731940

General Chemistry

Prep Batch: 555644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	351.2	
MB 480-555644/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-555644/2-A	Lab Control Sample	Total/NA	Water	351.2	
460-220548-O-1-B MS	Matrix Spike	Total/NA	Water	351.2	
460-220549-Q-1-B DU	Duplicate	Total/NA	Water	351.2	

Analysis Batch: 555780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	351.2	555644
MB 480-555644/1-A	Method Blank	Total/NA	Water	351.2	555644
LCS 480-555644/2-A	Lab Control Sample	Total/NA	Water	351.2	555644
460-220548-O-1-B MS	Matrix Spike	Total/NA	Water	351.2	555644
460-220549-Q-1-B DU	Duplicate	Total/NA	Water	351.2	555644

Analysis Batch: 731894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	SM 5210B	
USB 460-731894/24	Method Blank	Total/NA	Water	SM 5210B	
LCS 460-731894/25	Lab Control Sample	Total/NA	Water	SM 5210B	
460-220554-AF-15 DU	Duplicate	Total/NA	Water	SM 5210B	

General Chemistry

Analysis Batch: 731959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	SM 2320B	
MB 460-731959/25	Method Blank	Total/NA	Water	SM 2320B	
LCSSRM 460-731959/26	Lab Control Sample	Total/NA	Water	SM 2320B	
460-220519-C-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 732089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	353.2	
MB 460-732089/14	Method Blank	Total/NA	Water	353.2	
LCSSRM 460-732089/15	Lab Control Sample	Total/NA	Water	353.2	
LCSSRM 460-732089/16	Lab Control Sample	Total/NA	Water	353.2	
MRL 460-732089/11	Lab Control Sample	Total/NA	Water	353.2	
460-220554-N-15 MS	Matrix Spike	Total/NA	Water	353.2	
460-220554-N-15 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 732502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	SM 2510B	
MB 460-732502/34	Method Blank	Total/NA	Water	SM 2510B	
LCSSRM 460-732502/35	Lab Control Sample	Total/NA	Water	SM 2510B	
460-220101-H-1 DU	Duplicate	Total/NA	Water	SM 2510B	

Prep Batch: 732587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	SM 4500 P B	
460-220548-V-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 P B	
460-220548-V-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 P B	

Analysis Batch: 732588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	SM 4500 P E	732587
460-220548-V-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 P E	732587
460-220548-V-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 P E	732587

Analysis Batch: 732766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	203	

Analysis Batch: 733980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	SM 2340C	
MB 460-733980/24	Method Blank	Total/NA	Water	SM 2340C	
LCSSRM 460-733980/25	Lab Control Sample	Total/NA	Water	SM 2340C	
460-220550-1 DU	OUTFALL-01A	Total/NA	Water	SM 2340C	

Analysis Batch: 734246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220550-1	OUTFALL-01A	Total/NA	Water	410.4	
MB 460-734246/3	Method Blank	Total/NA	Water	410.4	
LCSSRM 460-734246/4	Lab Control Sample	Total/NA	Water	410.4	
460-220967-A-2 MS	Matrix Spike	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 734246 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220967-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220550-2

Client Sample ID: OUTFALL-01A

Date Collected: 10/14/20 09:10
Date Received: 10/14/20 19:00

Lab Sample ID: 460-220550-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	554924	10/21/20 15:38	MAN	TAL BUF
Total/NA	Prep	608			731940	10/15/20 14:41	ATF	TAL EDI
Total/NA	Analysis	608.3		1	732876	10/19/20 11:55	SAK	TAL EDI
Total/NA	Analysis	203		1	732766	10/22/20 11:18	TJW	TAL EDI
Total/NA	Prep	351.2			555644	10/25/20 10:41	KEB	TAL BUF
Total/NA	Analysis	351.2		1	555780	10/26/20 09:15	CLT	TAL BUF
Total/NA	Analysis	353.2		1	732089	10/15/20 20:23	VBG	TAL EDI
Total/NA	Analysis	410.4		1	734246	10/23/20 14:23	HTV	TAL EDI
Total/NA	Analysis	SM 2320B		1	731959	10/15/20 06:17	AAA	TAL EDI
Total/NA	Analysis	SM 2340C		1	733980	10/22/20 18:45	HTV	TAL EDI
Total/NA	Analysis	SM 2510B		1	732502	10/17/20 11:30	HTV	TAL EDI
Total/NA	Prep	SM 4500 P B			732587	10/17/20 12:00	HTV	TAL EDI
Total/NA	Analysis	SM 4500 P E		1	732588	10/17/20 14:30	HTV	TAL EDI
Total/NA	Analysis	SM 5210B		1	731894	10/15/20 15:27	PLS	TAL EDI

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220550-2
Project/Site: EMGPRP-31097

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

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
203		Water	Langelier Index
608.3	608	Water	alpha-Chlordane
608.3	608	Water	Endrin ketone
608.3	608	Water	gamma-Chlordane

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220550-2
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
608.3	Organochlorine Pesticides/PCBs in Water	40CFR136A	TAL EDI
203	Langelier Index	SM15	TAL EDI
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL EDI
410.4	COD	MCAWW	TAL EDI
SM 2320B	Alkalinity	SM	TAL EDI
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL EDI
SM 2510B	Conductivity, Specific Conductance	SM	TAL EDI
SM 4500 P E	Phosphorus	SM	TAL EDI
SM 5210B	BOD, 5-Day	SM	TAL EDI
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL EDI
SM 4500 P B	Phosphorous, Total and Ortho	SM	TAL EDI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SM = "Standard Methods For The Examination Of Water And Wastewater"

SM15 = "Standard Methods For The Examination Of Water And Wastewater", 15th Edition, 1981.

Laboratory References:

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

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220550-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-220550-1	OUTFALL-01A	Water	10/14/20 09:10	10/14/20 19:00	

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: TG	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-130510-84480.1
Client Contact: Matthew Mueller	Phone:	E-Mail: Melissa.Haas@Eurofinset.com		Page: Page 1 of 1
Company: Roux Environmental Eng & Geology DPC				Job #: 220550
Address: 209 Shafter St	Due Date Requested:			
City: Islandia	TAT Requested (days): 5 Day (See comments)			
State, Zip: NY, 11749				
Phone: 716-472-2725(Tel)	PO #: 0172.0030Y060			
Email: mmueller@rouxinc.com	WO #:			
Project Name: EMGPRP-31097	Project #: 46032869			
Analysis Group: Annual Performance Sampling	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Volatile Organic Compounds Method:624.1_PREC	Volatile Organic Compounds (MEK, MTBE, Acetone) Method: 8260C	GRO Method: 8015D_GRO	ORO/DRO Method: 8015D-DRO	Semivolatile Organic Compounds Method: 625.1_PREC	Metals (TAL) Method: 200.8	Mercury Method: 245.1	Langalier Index Method: 203	Anions, Ion Chromatography Method: 300_ORGFM_28D	Nitrogen, Total Kjeldahl Method: 351.2	Nitrogen, Nitrate-Nitrite Method: 353.2	Phosphorus Method: 4500_P_E	Phenolics, Total Recoverable Method: 420.1	HEM and SGT-HEM Method: 1664A_NP	pH Method: SM4500_H+	COD Method: 410.4	Turbidity, Nephelometric Method: 180.1	Alkalinity Method: 2320B	Hardness, Total (mg/l as CaCO3) Method: 2340C	Conductivity, Specific Conductance Method: 2510B	Solids, Total Dissolved (TDS) Method: 2540C	Solids, Total Suspended (TSS) Method: 2540D	Solids, Settleable Method: SM2540F	BOD, 5-Day Method: 5210B	Dissolved Gases (GC) (Methane, Ethane, Ethene) Method: RSK_175	Organochlorine Pesticides in Water Method: 608.3_PREC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A	N	N	D	D	N	N	S	N	S	S	A	N	S	N	N	N	N	N	N	N	N	A	N		
OUTFALL-01A	10/14/20	9:10	G	W	N	N	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	28	Methods 203, 351.2, 353.2, 4500_P_E, 410.3, 2320B, 2340C, 2510B, 5210B, RSK_175, 608.3_PREC to be reported separately (10 Day TAT) Field Temp: 17.35°C Field pH: 7.85
QAQC_TB	10/9/20			W			X	X																							X		4	Trip Blank 2

460-220550 Chain of Custody

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

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

Deliverable Requested: I, II, III, IV, Other (specify): Level 2, EDD (EQuIS and Excel)

Special Instructions/QC Requirements: **NOTE SHORT HOLDS**

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Natalie B	10/14/2020 16:00	Roux	Kamal	10/14/20 1600	TA
2	Kamal	10/14/20 1900	TA	Joseph	10/14/20 1900	TAEdi
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 002255 | Cooler Temperature(s) °C and Other Remarks: 1.6°C IR1

Ver: 01/16/2019

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 220550

Number of Coolers: 1 **IR Gun #** 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.6 °C	°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1		<2		<2	<2			<2		<2			<2		

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: K.A. **Date:** 10/14/20

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-59743.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Melissa.Haas@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-220550-2
Address: 10 Hazelwood Drive, ,	Due Date Requested: 10/26/2020			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: EMGPRP-31097	Project #: 46032869			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	351.2/351.2_Prep Nitrogen, Total Kjeldahl	RSK_175/ Methane, Ethane, Ethene	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
OUTFALL-01A (460-220550-1)	10/14/20	09:10 Eastern		Water			X	X	4	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/15/20 1900	ETAEd	[signature]	10/16/20 1000	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 21@# ICE

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-220550-2

Login Number: 220550
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-220550-2

Login Number: 220550
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo
List Creation: 10/19/20 03:44 PM

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	2.8 ir gun #1 ice
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.	True	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-220549-1
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

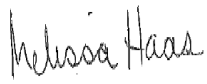
Attn: Matthew Mueller

Melissa Haas

Authorized for release by:
10/23/2020 11:18:13 AM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/23/2020 11:18:13 AM

Table of Contents

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220549-1
Project/Site: EMGPRP-31097

Qualifiers

GC/MS 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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-220549-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: EMGPRP-31097

Report Number: 460-220549-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/14/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.9 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

The samples were received on 10/14/2020 7:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9º C.

Receipt Exceptions

Per laboratory policy the trip blank sample date/time was changed to reflect the latest sample date/time of the sampling event. The client confirmed that RSK is not needed for the trip blank.

The following sample was analyzed for COD by method 410.4 due to chloride <1000 mg/L RCS-INFLUENT (460-220549-1)

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Samples RCS-INFLUENT (460-220549-1) and QAQC_TB (460-220549-2) were analyzed for Volatile Organic Compounds by GC/MS in accordance with EPA Method 624.1. The samples were analyzed on 10/17/2020.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RCS-INFLUENT (460-220549-1) and QAQC_TB (460-220549-2) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 10/16/2020.

Job ID: 460-220549-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)
Sample RCS-INFLUENT (460-220549-1) was analyzed for Semivolatile Organic Compounds (GC/MS) in accordance with 625.1. The samples were prepared and analyzed on 10/16/2020.

The continuing calibration verification (CCV) analyzed in batch 460-732351 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 4-Nitrophenol, Benzoic acid, 4,6-Dinitro-2-methylphenol and 2,4-Dinitrotoluene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-732199 and analytical batch 460-732351 recovered outside control limits for the following analytes: Benzoic acid. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

No difficulties were encountered during the Semivolatile Organic Compounds (GC/MS) analysis.

All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS
Sample RCS-INFLUENT (460-220549-1) was analyzed for gasoline range organics in accordance with EPA SW-846 Method 8015D - GRO. The samples were analyzed on 10/15/2020.

The following sample was diluted to bring the concentration of target analytes within the calibration range: RCS-INFLUENT (460-220549-1). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the GRO analysis.

All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS
Sample RCS-INFLUENT (460-220549-1) was analyzed for diesel range organics in accordance with EPA SW-846 Method 8015D - DRO. The samples were prepared and analyzed on 10/15/2020.

Diesel Range Organics (C10-C44) and ORO (C28-C44) were detected in method blank MB 460-731861/1-A at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the DRO analysis.

All other quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS
Sample RCS-INFLUENT (460-220549-1) was analyzed for total recoverable metals in accordance with EPA Method 200.8 (ICP/MS). The samples were prepared on 10/15/2020 and analyzed on 10/16/2020.

Calcium and Sodium failed the recovery criteria high for the MS of sample 460-220372-1 in batch 460-732253.

Refer to the QC report for details.

Sample RCS-INFLUENT (460-220549-1)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

Job ID: 460-220549-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY
Sample RCS-INFLUENT (460-220549-1) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared and analyzed on 10/16/2020.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

SILICA GEL TREATED (SGT/PETROLEUM HYDROCARBON) AND N-HEXANE EXTRACTABLE MATERIAL (HEM/OIL&GREASE)
Sample RCS-INFLUENT (460-220549-1) was analyzed for Silica Gel Treated (SGT/Petroleum Hydrocarbon) and N-Hexane Extractable Material (HEM/Oil&Grease) in accordance with EPA SW-846 Method 1664A. The samples were analyzed on 10/18/2020.

Analysis for Hexane Extractable Material (HEM) was performed for the following sample: RCS-INFLUENT (460-220549-1). Since the HEM result(s) was below the reporting limit (RL), the result(s) for Silica Gel Treated - Hexane Extractable Material (SGT-HEM) was reported as a non-detect. All HEM quality control criteria were met.

No difficulties were encountered during the SGT-HEM/HEM analysis.

All quality control parameters were within the acceptance limits.

TURBIDITY
Sample RCS-INFLUENT (460-220549-1) was analyzed for turbidity in accordance with EPA Method 180.1 - Nephelometric. The samples were analyzed on 10/15/2020.

Turbidity was detected in method blank MB 460-731991/10 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Sample RCS-INFLUENT (460-220549-1)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the turbidity analysis.

All other quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS
Sample RCS-INFLUENT (460-220549-1) was analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 10/20/2020.

Total Dissolved Solids exceeded the RPD limit for the duplicate of sample 460-220548-1. Refer to the QC report for details.

No other difficulties were encountered during the TDS analysis.

All other quality control parameters were within the acceptance limits.

TOTAL SUSPENDED SOLIDS
Sample RCS-INFLUENT (460-220549-1) was analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 10/19/2020.

Total Suspended Solids exceeded the RPD limit for the duplicate of sample 460-220835-10. Refer to the QC report for details.

No other difficulties were encountered during the TSS analysis.

Job ID: 460-220549-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

All other quality control parameters were within the acceptance limits.

ANIONS

Sample RCS-INFLUENT (460-220549-1) was analyzed for anions in accordance with EPA Method 300_ORGFM_28D Anions by Ion Chromatograph. The samples were analyzed on 10/17/2020.

The following sample was diluted to bring the concentration of target analytes within the calibration range: RCS-INFLUENT (460-220549-1) at 16.0. Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE PHENOLS

Sample RCS-INFLUENT (460-220549-1) was analyzed for total recoverable phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 10/21/2020.

Phenols, Total failed the recovery criteria low for the MS of sample RCS-INFLUENTMS (460-220549-1) in batch 460-733672.

Phenols, Total failed the recovery criteria low for the MSD of sample RCS-INFLUENTMSD (460-220549-1) in batch 460-733672.

Refer to the QC report for details.

No other difficulties were encountered during the phenol analysis.

All other quality control parameters were within the acceptance limits.

SETTLEABLE SOLIDS

Sample RCS-INFLUENT (460-220549-1) was analyzed for settleable solids in accordance with SM 2540F. The samples were analyzed on 10/15/2020.

No difficulties were encountered during the settleable solids analysis.

All quality control parameters were within the acceptance limits.

PH

Sample RCS-INFLUENT (460-220549-1) was analyzed for pH in accordance with SM 4500 H+. The samples were analyzed on 10/18/2020.

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220549-1
Project/Site: EMGPRP-31097

Client Sample ID: RCS-INFLUENT
Lab Sample ID: 460-220549-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.82	J	1.0	0.26	ug/L	1		624.1	Total/NA
1,1-Dichloroethene	0.70	J	1.0	0.12	ug/L	1		624.1	Total/NA
1,2,4-Trimethylbenzene	3.3		1.0	0.37	ug/L	1		624.1	Total/NA
1,2-Dichloroethane	4.6		1.0	0.84	ug/L	1		624.1	Total/NA
1,2-Dichloroethene, Total	43		2.0	0.44	ug/L	1		624.1	Total/NA
1,3,5-Trimethylbenzene	1.8		1.0	0.33	ug/L	1		624.1	Total/NA
2-Propanol	32		10	5.9	ug/L	1		624.1	Total/NA
Benzene	110		1.0	0.43	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	43		1.0	0.22	ug/L	1		624.1	Total/NA
Cyclohexane	27		1.0	0.32	ug/L	1		624.1	Total/NA
Ethylbenzene	2.3		1.0	0.30	ug/L	1		624.1	Total/NA
Isopropylbenzene	5.4		1.0	0.16	ug/L	1		624.1	Total/NA
m-Xylene & p-Xylene	11		1.0	0.30	ug/L	1		624.1	Total/NA
n-Butylbenzene	0.58	J	1.0	0.32	ug/L	1		624.1	Total/NA
n-Hexane	2.1		1.0	0.69	ug/L	1		624.1	Total/NA
N-Propylbenzene	5.5		1.0	0.67	ug/L	1		624.1	Total/NA
o-Xylene	2.3		1.0	0.36	ug/L	1		624.1	Total/NA
sec-Butylbenzene	1.0		1.0	0.37	ug/L	1		624.1	Total/NA
t-Butyl alcohol	24		10	8.3	ug/L	1		624.1	Total/NA
tert-Butylbenzene	0.45	J	1.0	0.34	ug/L	1		624.1	Total/NA
Tetrachloroethene	270		1.0	0.25	ug/L	1		624.1	Total/NA
Toluene	2.3		1.0	0.38	ug/L	1		624.1	Total/NA
trans-1,2-Dichloroethene	0.68	J	1.0	0.24	ug/L	1		624.1	Total/NA
Trichloroethene	46		1.0	0.31	ug/L	1		624.1	Total/NA
Vinyl chloride	5.4		1.0	0.34	ug/L	1		624.1	Total/NA
Xylenes, Total	14		2.0	0.65	ug/L	1		624.1	Total/NA
Acetone	6.8		5.0	4.4	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	5.7		1.0	0.22	ug/L	1		8260C	Total/NA
1-Methylnaphthalene	5.8		4.0	1.1	ug/L	1		625.1	Total/NA
2-Methylnaphthalene	3.6	J	10	1.1	ug/L	1		625.1	Total/NA
Acenaphthene	2.0	J	10	1.1	ug/L	1		625.1	Total/NA
Naphthalene	1.5	J	2.0	1.1	ug/L	1		625.1	Total/NA
Phenanthrene	1.0	J	10	0.58	ug/L	1		625.1	Total/NA
GRO	540		50	50	ug/L	2		8015D	Total/NA
Diesel Range Organics (C10-C44)	1.4		0.13	0.039	mg/L	1		8015D	Total/NA
ORO (C28-C44)	0.33		0.10	0.029	mg/L	1		8015D	Total/NA
Chloride	990000		5100	620	ug/L	16		300.0	Total/NA
Sulfate	180000		7700	2500	ug/L	16		300.0	Total/NA
Arsenic	4.4		2.0	0.61	ug/L	1		200.8	Total Recoverable
Barium	310		4.0	1.0	ug/L	1		200.8	Total Recoverable
Calcium	150000		200	22	ug/L	1		200.8	Total Recoverable
Cobalt	1.5	J	4.0	0.19	ug/L	1		200.8	Total Recoverable
Copper	1.1	J	4.0	1.1	ug/L	1		200.8	Total Recoverable
Iron	4300		120	17	ug/L	1		200.8	Total Recoverable
Lead	0.12	J	1.2	0.071	ug/L	1		200.8	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: RCS-INFLUENT (Continued)
Lab Sample ID: 460-220549-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	87000		200	27	ug/L	1		200.8	Total Recoverable
Manganese	2400		8.0	0.75	ug/L	1		200.8	Total Recoverable
Potassium	18000		200	84	ug/L	1		200.8	Total Recoverable
Sodium	570000		1000	99	ug/L	5		200.8	Total Recoverable
Vanadium	0.80	J	4.0	0.24	ug/L	1		200.8	Total Recoverable
Turbidity	52	B	1.0	0.23	NTU	2		180.1	Total/NA
Total Dissolved Solids	3600000		100000	100000	ug/L	1		SM 2540C	Total/NA
Total Suspended Solids	11000		2500	2500	ug/L	1		SM 2540D	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.8	HF	0.1	0.1	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: QAQC_TB
Lab Sample ID: 460-220549-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Propanol	48		10	5.9	ug/L	1		624.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-1

Client Sample ID: RCS-INFLUENT

Date Collected: 10/14/20 08:55
Date Received: 10/14/20 19:00

Lab Sample ID: 460-220549-1

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/17/20 20:02	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/17/20 20:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/17/20 20:02	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/17/20 20:02	1
1,1-Dichloroethane	**0.82**	**J**	1.0	0.26	ug/L			10/17/20 20:02	1
1,1-Dichloroethene	**0.70**	**J**	1.0	0.12	ug/L			10/17/20 20:02	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/17/20 20:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/17/20 20:02	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/17/20 20:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/17/20 20:02	1
1,2,4-Trimethylbenzene	**3.3**		1.0	0.37	ug/L			10/17/20 20:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/17/20 20:02	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/17/20 20:02	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/17/20 20:02	1
1,2-Dichloroethane	**4.6**		1.0	0.84	ug/L			10/17/20 20:02	1
1,2-Dichloroethene, Total	**43**		2.0	0.44	ug/L			10/17/20 20:02	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/17/20 20:02	1
1,3,5-Trimethylbenzene	**1.8**		1.0	0.33	ug/L			10/17/20 20:02	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/17/20 20:02	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/17/20 20:02	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/17/20 20:02	1
1,4-Dioxane	ND		50	28	ug/L			10/17/20 20:02	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/17/20 20:02	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/17/20 20:02	1
2-Hexanone	ND		5.0	2.9	ug/L			10/17/20 20:02	1
2-Propanol	**32**		10	5.9	ug/L			10/17/20 20:02	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/17/20 20:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/17/20 20:02	1
Acetonitrile	ND		10	5.0	ug/L			10/17/20 20:02	1
Benzene	**110**		1.0	0.43	ug/L			10/17/20 20:02	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/17/20 20:02	1
Bromobenzene	ND		1.0	0.35	ug/L			10/17/20 20:02	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/17/20 20:02	1
Bromoform	ND		1.0	0.54	ug/L			10/17/20 20:02	1
Bromomethane	ND		1.0	0.45	ug/L			10/17/20 20:02	1
Butyl acetate	ND		2.0	0.33	ug/L			10/17/20 20:02	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/17/20 20:02	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/17/20 20:02	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/17/20 20:02	1
Chloroethane	ND		1.0	0.32	ug/L			10/17/20 20:02	1
Chloroform	ND		1.0	0.33	ug/L			10/17/20 20:02	1
Chloromethane	ND		1.0	0.43	ug/L			10/17/20 20:02	1
cis-1,2-Dichloroethene	**43**		1.0	0.22	ug/L			10/17/20 20:02	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/17/20 20:02	1
Cyclohexane	**27**		1.0	0.32	ug/L			10/17/20 20:02	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/17/20 20:02	1
Dibromomethane	ND		1.0	0.60	ug/L			10/17/20 20:02	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/17/20 20:02	1
Diisopropyl ether	ND		1.0	0.45	ug/L			10/17/20 20:02	1

Client Sample ID: RCS-INFLUENT
Lab Sample ID: 460-220549-1

Date Collected: 10/14/20 08:55
Matrix: Water

Date Received: 10/14/20 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl acetate	ND		2.0	0.73	ug/L			10/17/20 20:02	1
Ethylbenzene	**2.3**		1.0	0.30	ug/L			10/17/20 20:02	1
Freon 113	ND		1.0	0.31	ug/L			10/17/20 20:02	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/17/20 20:02	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/17/20 20:02	1
Isopropylbenzene	**5.4**		1.0	0.16	ug/L			10/17/20 20:02	1
Methyl iodide	ND		1.0	0.48	ug/L			10/17/20 20:02	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/17/20 20:02	1
Methylene Chloride	ND		1.0	0.32	ug/L			10/17/20 20:02	1
m-Xylene & p-Xylene	**11**		1.0	0.30	ug/L			10/17/20 20:02	1
n-Butylbenzene	**0.58**	**J**	1.0	0.32	ug/L			10/17/20 20:02	1
n-Heptane	ND		5.0	0.47	ug/L			10/17/20 20:02	1
n-Hexane	**2.1**		1.0	0.69	ug/L			10/17/20 20:02	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/17/20 20:02	1
N-Propylbenzene	**5.5**		1.0	0.67	ug/L			10/17/20 20:02	1
o-Xylene	**2.3**		1.0	0.36	ug/L			10/17/20 20:02	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/17/20 20:02	1
sec-Butylbenzene	**1.0**		1.0	0.37	ug/L			10/17/20 20:02	1
Styrene	ND		1.0	0.42	ug/L			10/17/20 20:02	1
t-Butyl alcohol	**24**		10	8.3	ug/L			10/17/20 20:02	1
tert-Butylbenzene	**0.45**	**J**	1.0	0.34	ug/L			10/17/20 20:02	1
Tetrachloroethene	**270**		1.0	0.25	ug/L			10/17/20 20:02	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/17/20 20:02	1
Toluene	**2.3**		1.0	0.38	ug/L			10/17/20 20:02	1
trans-1,2-Dichloroethene	**0.68**	**J**	1.0	0.24	ug/L			10/17/20 20:02	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/17/20 20:02	1
Trichloroethene	**46**		1.0	0.31	ug/L			10/17/20 20:02	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/17/20 20:02	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/17/20 20:02	1
Vinyl chloride	**5.4**		1.0	0.34	ug/L			10/17/20 20:02	1
Xylenes, Total	**14**		2.0	0.65	ug/L			10/17/20 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*10/17/20 20:02*	*1*
Bromofluorobenzene	*110*		*60 - 140*		*10/17/20 20:02*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*		*10/17/20 20:02*	*1*
Toluene-d8 (Surr)	*111*		*60 - 140*		*10/17/20 20:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/16/20 17:43	1
Acetone	**6.8**		5.0	4.4	ug/L			10/16/20 17:43	1
Methyl tert-butyl ether	**5.7**		1.0	0.22	ug/L			10/16/20 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*		*10/16/20 17:43*	*1*
4-Bromofluorobenzene	*100*		*76 - 120*		*10/16/20 17:43*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 124*		*10/16/20 17:43*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/16/20 17:43*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-1

Client Sample ID: RCS-INFLUENT
Date Collected: 10/14/20 08:55
Date Received: 10/14/20 19:00

Lab Sample ID: 460-220549-1
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 20:34	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 20:34	1
1,2,4-Trichlorobenzene	ND		2.0	1.3	ug/L		10/16/20 08:31	10/16/20 20:34	1
1,2-Dichlorobenzene	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 20:34	1
1,2-Diphenylhydrazine	ND		10	0.37	ug/L		10/16/20 08:31	10/16/20 20:34	1
1,3-Dichlorobenzene	ND		10	2.0	ug/L		10/16/20 08:31	10/16/20 20:34	1
1,4-Dichlorobenzene	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 20:34	1
1,4-Dioxane	ND		10	1.6	ug/L		10/16/20 08:31	10/16/20 20:34	1
1-Methylnaphthalene	**5.8**		4.0	1.1	ug/L		10/16/20 08:31	10/16/20 20:34	1
2,2'-oxybis[1-chloropropane]	ND		10	0.63	ug/L		10/16/20 08:31	10/16/20 20:34	1
2,3,4,6-Tetrachlorophenol	ND		10	0.75	ug/L		10/16/20 08:31	10/16/20 20:34	1
2,4,5-Trichlorophenol	ND		10	0.85	ug/L		10/16/20 08:31	10/16/20 20:34	1
2,4,6-Trichlorophenol	ND		10	0.70	ug/L		10/16/20 08:31	10/16/20 20:34	1
2,4-Dichlorophenol	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 20:34	1
2,4-Dimethylphenol	ND		10	0.66	ug/L		10/16/20 08:31	10/16/20 20:34	1
2,4-Dinitrophenol	ND		20	2.0	ug/L		10/16/20 08:31	10/16/20 20:34	1
2,4-Dinitrotoluene	ND		2.0	1.0	ug/L		10/16/20 08:31	10/16/20 20:34	1
2,6-Dinitrotoluene	ND		2.0	0.53	ug/L		10/16/20 08:31	10/16/20 20:34	1
2-Chloronaphthalene	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 20:34	1
2-Chlorophenol	ND		10	0.38	ug/L		10/16/20 08:31	10/16/20 20:34	1
2-Methylnaphthalene	**3.6**	**J**	10	1.1	ug/L		10/16/20 08:31	10/16/20 20:34	1
2-Methylphenol	ND		10	0.67	ug/L		10/16/20 08:31	10/16/20 20:34	1
2-Nitroaniline	ND		10	0.47	ug/L		10/16/20 08:31	10/16/20 20:34	1
2-Nitrophenol	ND		10	0.75	ug/L		10/16/20 08:31	10/16/20 20:34	1
3,3'-Dichlorobenzidine	ND		10	1.6	ug/L		10/16/20 08:31	10/16/20 20:34	1
3-Nitroaniline	ND		10	0.96	ug/L		10/16/20 08:31	10/16/20 20:34	1
4,6-Dinitro-2-methylphenol	ND		20	3.4	ug/L		10/16/20 08:31	10/16/20 20:34	1
4-Bromophenyl phenyl ether	ND		10	0.75	ug/L		10/16/20 08:31	10/16/20 20:34	1
4-Chloro-3-methylphenol	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 20:34	1
4-Chloroaniline	ND		10	1.9	ug/L		10/16/20 08:31	10/16/20 20:34	1
4-Chlorophenyl phenyl ether	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 20:34	1
4-Methylphenol	ND		10	0.76	ug/L		10/16/20 08:31	10/16/20 20:34	1
4-Nitroaniline	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 20:34	1
4-Nitrophenol	ND		20	1.7	ug/L		10/16/20 08:31	10/16/20 20:34	1
Acenaphthene	**2.0**	**J**	10	1.1	ug/L		10/16/20 08:31	10/16/20 20:34	1
Acenaphthylene	ND		10	0.82	ug/L		10/16/20 08:31	10/16/20 20:34	1
Acetophenone	ND		10	2.5	ug/L		10/16/20 08:31	10/16/20 20:34	1
Aniline	ND		10	1.1	ug/L		10/16/20 08:31	10/16/20 20:34	1
Anthracene	ND		10	0.63	ug/L		10/16/20 08:31	10/16/20 20:34	1
Benzidine	ND		10	5.9	ug/L		10/16/20 08:31	10/16/20 20:34	1
Benzo[a]anthracene	ND		1.0	0.59	ug/L		10/16/20 08:31	10/16/20 20:34	1
Benzo[a]pyrene	ND		1.0	0.68	ug/L		10/16/20 08:31	10/16/20 20:34	1
Benzo[b]fluoranthene	ND		2.0	1.4	ug/L		10/16/20 08:31	10/16/20 20:34	1
Benzo[g,h,i]perylene	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 20:34	1
Benzo[k]fluoranthene	ND		1.0	0.67	ug/L		10/16/20 08:31	10/16/20 20:34	1
Benzoic acid	ND	*	50	4.6	ug/L		10/16/20 08:31	10/16/20 20:34	1
Benzyl alcohol	ND		10	0.94	ug/L		10/16/20 08:31	10/16/20 20:34	1
Bis(2-chloroethoxy)methane	ND		10	0.64	ug/L		10/16/20 08:31	10/16/20 20:34	1
Bis(2-chloroethyl)ether	ND		1.0	0.69	ug/L		10/16/20 08:31	10/16/20 20:34	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-1

Client Sample ID: RCS-INFLUENT

Date Collected: 10/14/20 08:55
Date Received: 10/14/20 19:00

Lab Sample ID: 460-220549-1

Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		2.0	1.0	ug/L		10/16/20 08:31	10/16/20 20:34	1
Butyl benzyl phthalate	ND		10	0.85	ug/L		10/16/20 08:31	10/16/20 20:34	1
Carbazole	ND		10	0.68	ug/L		10/16/20 08:31	10/16/20 20:34	1
Chrysene	ND		2.0	0.91	ug/L		10/16/20 08:31	10/16/20 20:34	1
Dibenz(a,h)anthracene	ND		1.0	0.74	ug/L		10/16/20 08:31	10/16/20 20:34	1
Dibenzofuran	ND		10	1.1	ug/L		10/16/20 08:31	10/16/20 20:34	1
Diethyl phthalate	ND		10	0.98	ug/L		10/16/20 08:31	10/16/20 20:34	1
Dimethyl phthalate	ND		10	0.77	ug/L		10/16/20 08:31	10/16/20 20:34	1
Di-n-butyl phthalate	ND		10	0.75	ug/L		10/16/20 08:31	10/16/20 20:34	1
Di-n-octyl phthalate	ND		10	1.4	ug/L		10/16/20 08:31	10/16/20 20:34	1
Diphenyl ether	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 20:34	1
Fluoranthene	ND		10	0.84	ug/L		10/16/20 08:31	10/16/20 20:34	1
Fluorene	ND		10	0.91	ug/L		10/16/20 08:31	10/16/20 20:34	1
Hexachlorobenzene	ND		1.0	0.91	ug/L		10/16/20 08:31	10/16/20 20:34	1
Hexachlorobutadiene	ND		1.0	0.44	ug/L		10/16/20 08:31	10/16/20 20:34	1
Hexachlorocyclopentadiene	ND		10	1.7	ug/L		10/16/20 08:31	10/16/20 20:34	1
Hexachloroethane	ND		2.0	1.2	ug/L		10/16/20 08:31	10/16/20 20:34	1
Indeno[1,2,3-cd]pyrene	ND		2.0	1.3	ug/L		10/16/20 08:31	10/16/20 20:34	1
Isophorone	ND		10	0.80	ug/L		10/16/20 08:31	10/16/20 20:34	1
Naphthalene	**1.5**	**J**	2.0	1.1	ug/L		10/16/20 08:31	10/16/20 20:34	1
n-Decane	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 20:34	1
Nitrobenzene	ND		2.0	1.6	ug/L		10/16/20 08:31	10/16/20 20:34	1
N-Nitrosodimethylamine	ND		10	1.4	ug/L		10/16/20 08:31	10/16/20 20:34	1
N-Nitrosodi-n-propylamine	ND		1.0	0.43	ug/L		10/16/20 08:31	10/16/20 20:34	1
N-Nitrosodiphenylamine	ND		10	0.89	ug/L		10/16/20 08:31	10/16/20 20:34	1
Pentachlorophenol	ND		20	3.0	ug/L		10/16/20 08:31	10/16/20 20:34	1
Phenanthrene	**1.0**	**J**	10	0.58	ug/L		10/16/20 08:31	10/16/20 20:34	1
Phenol	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 20:34	1
Pyrene	ND		10	1.6	ug/L		10/16/20 08:31	10/16/20 20:34	1
Pyridine	ND		10	5.9	ug/L		10/16/20 08:31	10/16/20 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*99*		*14 - 149*	*10/16/20 08:31*	*10/16/20 20:34*	*1*
2-Fluorobiphenyl	*62*		*44 - 129*	*10/16/20 08:31*	*10/16/20 20:34*	*1*
2-Fluorophenol	*40*		*10 - 76*	*10/16/20 08:31*	*10/16/20 20:34*	*1*
Nitrobenzene-d5	*79*		*15 - 314*	*10/16/20 08:31*	*10/16/20 20:34*	*1*
Phenol-d5	*27*		*8 - 424*	*10/16/20 08:31*	*10/16/20 20:34*	*1*
Terphenyl-d14	*44*		*28 - 150*	*10/16/20 08:31*	*10/16/20 20:34*	*1*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO	**540**		50	50	ug/L			10/15/20 17:32	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*80 - 150*		*10/15/20 17:32*	*2*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C44)	**1.4**		0.13	0.039	mg/L		10/15/20 09:19	10/15/20 23:14	1
ORO (C28-C44)	**0.33**		0.10	0.029	mg/L		10/15/20 09:19	10/15/20 23:14	1

Client Sample ID: RCS-INFLUENT
Lab Sample ID: 460-220549-1

Date Collected: 10/14/20 08:55
Matrix: Water

Date Received: 10/14/20 19:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*142*		*38 - 149*	*10/15/20 09:19*	*10/15/20 23:14*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**990000**		5100	620	ug/L			10/17/20 09:34	16
Sulfate	**180000**		7700	2500	ug/L			10/17/20 09:34	16

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	11	ug/L		10/15/20 17:05	10/16/20 13:32	1
Antimony	ND		2.0	0.65	ug/L		10/15/20 17:05	10/16/20 13:32	1
Arsenic	**4.4**		2.0	0.61	ug/L		10/15/20 17:05	10/16/20 13:32	1
Barium	**310**		4.0	1.0	ug/L		10/15/20 17:05	10/16/20 13:32	1
Beryllium	ND		0.80	0.060	ug/L		10/15/20 17:05	10/16/20 13:32	1
Cadmium	ND		2.0	0.43	ug/L		10/15/20 17:05	10/16/20 13:32	1
Calcium	**150000**		200	22	ug/L		10/15/20 17:05	10/16/20 13:32	1
Chromium	ND		4.0	0.45	ug/L		10/15/20 17:05	10/16/20 13:32	1
Cobalt	**1.5**	**J**	4.0	0.19	ug/L		10/15/20 17:05	10/16/20 13:32	1
Copper	**1.1**	**J**	4.0	1.1	ug/L		10/15/20 17:05	10/16/20 13:32	1
Iron	**4300**		120	17	ug/L		10/15/20 17:05	10/16/20 13:32	1
Lead	**0.12**	**J**	1.2	0.071	ug/L		10/15/20 17:05	10/16/20 13:32	1
Magnesium	**87000**		200	27	ug/L		10/15/20 17:05	10/16/20 13:32	1
Manganese	**2400**		8.0	0.75	ug/L		10/15/20 17:05	10/16/20 13:32	1
Nickel	ND		4.0	0.84	ug/L		10/15/20 17:05	10/16/20 13:32	1
Potassium	**18000**		200	84	ug/L		10/15/20 17:05	10/16/20 13:32	1
Selenium	ND		2.5	0.39	ug/L		10/15/20 17:05	10/16/20 13:32	1
Silver	ND		2.0	0.12	ug/L		10/15/20 17:05	10/16/20 13:32	1
Sodium	**570000**		1000	99	ug/L		10/15/20 17:05	10/16/20 13:46	5
Thallium	ND		0.80	0.15	ug/L		10/15/20 17:05	10/16/20 13:32	1
Vanadium	**0.80**	**J**	4.0	0.24	ug/L		10/15/20 17:05	10/16/20 13:32	1
Zinc	ND		16	2.6	ug/L		10/15/20 17:05	10/16/20 13:32	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		10/16/20 13:04	10/16/20 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**52**	**B**	1.0	0.23	NTU			10/15/20 16:47	2
Phenols, Total	ND	F1	50	41	ug/L		10/21/20 10:34	10/21/20 16:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	ND		5.0	5.0	mg/L			10/18/20 14:31	1
SGT-HEM	ND		5.0	5.0	mg/L			10/18/20 14:31	1
Total Dissolved Solids	**3600000**		100000	100000	ug/L			10/20/20 10:42	1
Total Suspended Solids	**11000**		2500	2500	ug/L			10/19/20 08:41	1
Settleable Solids	ND		0.10	0.10	mL/L			10/15/20 17:00	1
pH	**8.1**	**HF**	0.1	0.1	SU			10/18/20 13:31	1
Temperature	**20.8**	**HF**	0.1	0.1	Degrees C			10/18/20 13:31	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-1

Client Sample ID: QAQC_TB

Date Collected: 10/14/20 08:55
Date Received: 10/14/20 19:00

Lab Sample ID: 460-220549-2

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/17/20 13:13	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/17/20 13:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/17/20 13:13	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/17/20 13:13	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/17/20 13:13	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/17/20 13:13	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/17/20 13:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/17/20 13:13	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/17/20 13:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/17/20 13:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/17/20 13:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/17/20 13:13	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/17/20 13:13	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/17/20 13:13	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/17/20 13:13	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			10/17/20 13:13	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/17/20 13:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/17/20 13:13	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/17/20 13:13	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/17/20 13:13	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/17/20 13:13	1
1,4-Dioxane	ND		50	28	ug/L			10/17/20 13:13	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/17/20 13:13	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/17/20 13:13	1
2-Hexanone	ND		5.0	2.9	ug/L			10/17/20 13:13	1
2-Propanol	**48**		10	5.9	ug/L			10/17/20 13:13	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/17/20 13:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/17/20 13:13	1
Acetonitrile	ND		10	5.0	ug/L			10/17/20 13:13	1
Benzene	ND		1.0	0.43	ug/L			10/17/20 13:13	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/17/20 13:13	1
Bromobenzene	ND		1.0	0.35	ug/L			10/17/20 13:13	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/17/20 13:13	1
Bromoform	ND		1.0	0.54	ug/L			10/17/20 13:13	1
Bromomethane	ND		1.0	0.45	ug/L			10/17/20 13:13	1
Butyl acetate	ND		2.0	0.33	ug/L			10/17/20 13:13	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/17/20 13:13	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/17/20 13:13	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/17/20 13:13	1
Chloroethane	ND		1.0	0.32	ug/L			10/17/20 13:13	1
Chloroform	ND		1.0	0.33	ug/L			10/17/20 13:13	1
Chloromethane	ND		1.0	0.43	ug/L			10/17/20 13:13	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			10/17/20 13:13	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/17/20 13:13	1
Cyclohexane	ND		1.0	0.32	ug/L			10/17/20 13:13	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/17/20 13:13	1
Dibromomethane	ND		1.0	0.60	ug/L			10/17/20 13:13	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/17/20 13:13	1
Diisopropyl ether	ND		1.0	0.45	ug/L			10/17/20 13:13	1

Client Sample ID: QAQC_TB
Lab Sample ID: 460-220549-2
Date Collected: 10/14/20 08:55
Matrix: Water
Date Received: 10/14/20 19:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl acetate	ND		2.0	0.73	ug/L			10/17/20 13:13	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/17/20 13:13	1
Freon 113	ND		1.0	0.31	ug/L			10/17/20 13:13	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/17/20 13:13	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/17/20 13:13	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/17/20 13:13	1
Methyl iodide	ND		1.0	0.48	ug/L			10/17/20 13:13	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/17/20 13:13	1
Methylene Chloride	ND		1.0	0.32	ug/L			10/17/20 13:13	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/17/20 13:13	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/17/20 13:13	1
n-Heptane	ND		5.0	0.47	ug/L			10/17/20 13:13	1
n-Hexane	ND		1.0	0.69	ug/L			10/17/20 13:13	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/17/20 13:13	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/17/20 13:13	1
o-Xylene	ND		1.0	0.36	ug/L			10/17/20 13:13	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/17/20 13:13	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/17/20 13:13	1
Styrene	ND		1.0	0.42	ug/L			10/17/20 13:13	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/17/20 13:13	1
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/17/20 13:13	1
Tetrachloroethene	ND		1.0	0.25	ug/L			10/17/20 13:13	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/17/20 13:13	1
Toluene	ND		1.0	0.38	ug/L			10/17/20 13:13	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/17/20 13:13	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/17/20 13:13	1
Trichloroethene	ND		1.0	0.31	ug/L			10/17/20 13:13	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/17/20 13:13	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/17/20 13:13	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/17/20 13:13	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/17/20 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 140*		*10/17/20 13:13*	*1*
Bromofluorobenzene	*113*		*60 - 140*		*10/17/20 13:13*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*10/17/20 13:13*	*1*
Toluene-d8 (Surr)	*116*		*60 - 140*		*10/17/20 13:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/16/20 11:42	1
Acetone	ND		5.0	4.4	ug/L			10/16/20 11:42	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			10/16/20 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*		*10/16/20 11:42*	*1*
4-Bromofluorobenzene	*105*		*76 - 120*		*10/16/20 11:42*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*10/16/20 11:42*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/16/20 11:42*	*1*

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
460-220549-1	RCS-INFLUENT	108	110	111	111
460-220549-2	QAQC_TB	118	113	99	116
LCS 460-732477/4	Lab Control Sample	102	112	108	117
LCSD 460-732477/5	Lab Control Sample Dup	103	110	107	108
MB 460-732477/10	Method Blank	106	109	112	127

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-123)	(76-120)	(77-124)	(80-120)
460-220549-1	RCS-INFLUENT	101	100	98	104
460-220549-2	QAQC_TB	101	105	102	103
LCS 460-732169/4	Lab Control Sample	101	98	100	107
LCSD 460-732169/5	Lab Control Sample Dup	102	94	99	107
MB 460-732169/9	Method Blank	99	101	103	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(14-149)	(44-129)	(10-76)	(15-314)	(8-424)	(28-150)
460-220549-1	RCS-INFLUENT	99	62	40	79	27	44
LCS 460-732199/2-A	Lab Control Sample	104	76	48	83	33	77
LCSD 460-732199/3-A	Lab Control Sample Dup	98	74	46	83	32	77
MB 460-732199/1-A	Method Blank	99	50	38	66	25	79

Surrogate Legend

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

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220549-1
Project/Site: EMGPRP-31097

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		TFT1								
Lab Sample ID	Client Sample ID	(80-150)								
460-220549-1	RCS-INFLUENT	96								
LCS 460-731874/2	Lab Control Sample	100								
LCSD 460-731874/3	Lab Control Sample Dup	109								
MB 460-731874/5	Method Blank	110								

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		OTPH								
Lab Sample ID	Client Sample ID	(38-149)								
460-220549-1	RCS-INFLUENT	142								
LCS 460-731861/2-A	Lab Control Sample	139								
LCSD 460-731861/3-A	Lab Control Sample Dup	133								
MB 460-731861/1-A	Method Blank	144								

Surrogate Legend

OTPH = o-Terphenyl

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-732477/10
Matrix: Water
Analysis Batch: 732477

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.12	ug/L			10/17/20 12:25	1
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			10/17/20 12:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			10/17/20 12:25	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			10/17/20 12:25	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/17/20 12:25	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			10/17/20 12:25	1
1,1-Dichloropropene	ND		1.0	0.54	ug/L			10/17/20 12:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.77	ug/L			10/17/20 12:25	1
1,2,3-Trichloropropane	ND		1.0	0.66	ug/L			10/17/20 12:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			10/17/20 12:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.37	ug/L			10/17/20 12:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			10/17/20 12:25	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			10/17/20 12:25	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/17/20 12:25	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			10/17/20 12:25	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			10/17/20 12:25	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			10/17/20 12:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.33	ug/L			10/17/20 12:25	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			10/17/20 12:25	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			10/17/20 12:25	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			10/17/20 12:25	1
1,4-Dioxane	ND		50	28	ug/L			10/17/20 12:25	1
2,2-Dichloropropane	ND		1.0	0.28	ug/L			10/17/20 12:25	1
2-Chlorotoluene	ND		1.0	0.38	ug/L			10/17/20 12:25	1
2-Hexanone	ND		5.0	2.9	ug/L			10/17/20 12:25	1
2-Propanol	ND		10	5.9	ug/L			10/17/20 12:25	1
4-Chlorotoluene	ND		1.0	0.37	ug/L			10/17/20 12:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			10/17/20 12:25	1
Acetonitrile	ND		10	5.0	ug/L			10/17/20 12:25	1
Benzene	ND		1.0	0.43	ug/L			10/17/20 12:25	1
Benzyl chloride	ND		1.0	0.34	ug/L			10/17/20 12:25	1
Bromobenzene	ND		1.0	0.35	ug/L			10/17/20 12:25	1
Bromodichloromethane	ND		1.0	0.34	ug/L			10/17/20 12:25	1
Bromoform	ND		1.0	0.54	ug/L			10/17/20 12:25	1
Bromomethane	ND		1.0	0.45	ug/L			10/17/20 12:25	1
Butyl acetate	ND		2.0	0.33	ug/L			10/17/20 12:25	1
Carbon disulfide	ND		1.0	0.16	ug/L			10/17/20 12:25	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			10/17/20 12:25	1
Chlorobenzene	ND		1.0	0.38	ug/L			10/17/20 12:25	1
Chloroethane	ND		1.0	0.32	ug/L			10/17/20 12:25	1
Chloroform	ND		1.0	0.33	ug/L			10/17/20 12:25	1
Chloromethane	ND		1.0	0.43	ug/L			10/17/20 12:25	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			10/17/20 12:25	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/17/20 12:25	1
Cyclohexane	ND		1.0	0.32	ug/L			10/17/20 12:25	1
Dibromochloromethane	ND		1.0	0.13	ug/L			10/17/20 12:25	1
Dibromomethane	ND		1.0	0.60	ug/L			10/17/20 12:25	1
Dichlorodifluoromethane	ND		1.0	0.41	ug/L			10/17/20 12:25	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-732477/10
Matrix: Water
Analysis Batch: 732477

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.45	ug/L			10/17/20 12:25	1
Ethyl acetate	ND		2.0	0.73	ug/L			10/17/20 12:25	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/17/20 12:25	1
Freon 113	ND		1.0	0.31	ug/L			10/17/20 12:25	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/17/20 12:25	1
Isopropyl acetate	ND		2.0	0.40	ug/L			10/17/20 12:25	1
Isopropylbenzene	ND		1.0	0.16	ug/L			10/17/20 12:25	1
Methyl iodide	ND		1.0	0.48	ug/L			10/17/20 12:25	1
Methyl methacrylate	ND		2.0	0.97	ug/L			10/17/20 12:25	1
Methylene Chloride	ND		1.0	0.32	ug/L			10/17/20 12:25	1
m-Xylene & p-Xylene	ND		1.0	0.30	ug/L			10/17/20 12:25	1
n-Butylbenzene	ND		1.0	0.32	ug/L			10/17/20 12:25	1
n-Heptane	ND		5.0	0.47	ug/L			10/17/20 12:25	1
n-Hexane	ND		1.0	0.69	ug/L			10/17/20 12:25	1
n-Propyl acetate	ND		2.0	0.89	ug/L			10/17/20 12:25	1
N-Propylbenzene	ND		1.0	0.67	ug/L			10/17/20 12:25	1
o-Xylene	ND		1.0	0.36	ug/L			10/17/20 12:25	1
p-Isopropyltoluene	ND		1.0	0.37	ug/L			10/17/20 12:25	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			10/17/20 12:25	1
Styrene	ND		1.0	0.42	ug/L			10/17/20 12:25	1
t-Butyl alcohol	ND		10	8.3	ug/L			10/17/20 12:25	1
tert-Butylbenzene	ND		1.0	0.34	ug/L			10/17/20 12:25	1
Tetrachloroethene	ND		1.0	0.25	ug/L			10/17/20 12:25	1
Tetrahydrofuran	ND		2.0	1.0	ug/L			10/17/20 12:25	1
Toluene	ND		1.0	0.38	ug/L			10/17/20 12:25	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/17/20 12:25	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			10/17/20 12:25	1
Trichloroethene	ND		1.0	0.31	ug/L			10/17/20 12:25	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			10/17/20 12:25	1
Vinyl acetate	ND		2.0	0.83	ug/L			10/17/20 12:25	1
Vinyl chloride	ND		1.0	0.34	ug/L			10/17/20 12:25	1
Xylenes, Total	ND		2.0	0.65	ug/L			10/17/20 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*10/17/20 12:25*	*1*
Bromofluorobenzene	*109*		*60 - 140*		*10/17/20 12:25*	*1*
Dibromofluoromethane (Surr)	*112*		*60 - 140*		*10/17/20 12:25*	*1*
Toluene-d8 (Surr)	*127*		*60 - 140*		*10/17/20 12:25*	*1*

Lab Sample ID: LCS 460-732477/4
Matrix: Water
Analysis Batch: 732477

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.3		ug/L		97	60 - 140
1,1,1-Trichloroethane	20.0	19.1		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	20.0	22.9		ug/L		115	60 - 140
1,1,2-Trichloroethane	20.0	19.0		ug/L		95	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-732477/4
Matrix: Water
Analysis Batch: 732477

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	18.9		ug/L		95	70 - 130
1,1-Dichloroethene	20.0	22.4		ug/L		112	50 - 150
1,1-Dichloropropene	20.0	19.3		ug/L		97	60 - 140
1,2,3-Trichlorobenzene	20.0	26.7		ug/L		133	60 - 140
1,2,3-Trichloropropane	20.0	23.1		ug/L		115	60 - 140
1,2,4-Trichlorobenzene	20.0	23.8		ug/L		119	60 - 140
1,2,4-Trimethylbenzene	20.0	17.8		ug/L		89	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	18.9		ug/L		95	60 - 140
1,2-Dibromoethane	20.0	19.7		ug/L		98	60 - 140
1,2-Dichlorobenzene	20.0	19.5		ug/L		97	65 - 135
1,2-Dichloroethane	20.0	18.8		ug/L		94	70 - 130
1,2-Dichloropropane	20.0	23.5		ug/L		117	35 - 165
1,3,5-Trimethylbenzene	20.0	18.6		ug/L		93	60 - 140
1,3-Dichlorobenzene	20.0	19.7		ug/L		99	70 - 130
1,3-Dichloropropane	20.0	19.5		ug/L		97	60 - 140
1,4-Dichlorobenzene	20.0	19.3		ug/L		96	65 - 135
1,4-Dioxane	400	403		ug/L		101	60 - 140
2,2-Dichloropropane	20.0	19.1		ug/L		96	60 - 140
2-Chlorotoluene	20.0	21.0		ug/L		105	60 - 140
2-Hexanone	100	97.8		ug/L		98	60 - 140
4-Chlorotoluene	20.0	20.9		ug/L		105	60 - 140
4-Methyl-2-pentanone (MIBK)	100	119		ug/L		119	60 - 140
Acetonitrile	200	198		ug/L		99	60 - 140
Benzene	20.0	19.4		ug/L		97	65 - 135
Benzyl chloride	20.0	14.9		ug/L		74	60 - 140
Bromobenzene	20.0	22.8		ug/L		114	60 - 140
Bromodichloromethane	20.0	23.1		ug/L		115	65 - 135
Bromoform	20.0	18.9		ug/L		95	70 - 130
Bromomethane	20.0	17.5		ug/L		87	15 - 185
Butyl acetate	20.0	17.3		ug/L		87	60 - 140
Carbon disulfide	20.0	21.7		ug/L		108	60 - 140
Carbon tetrachloride	20.0	19.1		ug/L		96	70 - 130
Chlorobenzene	20.0	19.8		ug/L		99	65 - 135
Chloroethane	20.0	24.4		ug/L		122	40 - 160
Chloroform	20.0	19.5		ug/L		98	70 - 135
Chloromethane	20.0	25.4		ug/L		127	0.1 - 205
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	60 - 140
cis-1,3-Dichloropropene	20.0	21.8		ug/L		109	25 - 175
Cyclohexane	20.0	19.1		ug/L		96	60 - 140
Dibromochloromethane	20.0	19.0		ug/L		95	70 - 135
Dibromomethane	20.0	23.0		ug/L		115	60 - 140
Dichlorodifluoromethane	20.0	21.9		ug/L		110	60 - 140
Diisopropyl ether	20.0	19.4		ug/L		97	60 - 140
Ethyl acetate	40.0	38.7		ug/L		97	60 - 140
Ethylbenzene	20.0	20.0		ug/L		100	60 - 140
Freon 113	20.0	22.0		ug/L		110	60 - 140
Hexachlorobutadiene	20.0	18.3		ug/L		91	60 - 140
Isopropyl acetate	20.0	18.2		ug/L		91	60 - 140
Isopropylbenzene	20.0	21.4		ug/L		107	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-732477/4
Matrix: Water
Analysis Batch: 732477

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl iodide	20.0	12.0		ug/L		60	60 - 140
Methyl methacrylate	40.0	44.6		ug/L		111	60 - 140
Methylene Chloride	20.0	19.2		ug/L		96	60 - 140
m-Xylene & p-Xylene	20.0	19.7		ug/L		98	60 - 140
n-Butylbenzene	20.0	15.9		ug/L		79	60 - 140
n-Heptane	20.0	16.7		ug/L		83	60 - 140
n-Hexane	20.0	18.8		ug/L		94	60 - 140
n-Propyl acetate	20.0	22.4		ug/L		112	60 - 140
N-Propylbenzene	20.0	20.5		ug/L		103	60 - 140
o-Xylene	20.0	19.7		ug/L		98	60 - 140
p-Isopropyltoluene	20.0	16.7		ug/L		84	60 - 140
sec-Butylbenzene	20.0	17.9		ug/L		89	60 - 140
Styrene	20.0	20.5		ug/L		103	60 - 140
t-Butyl alcohol	200	185		ug/L		92	60 - 140
tert-Butylbenzene	20.0	18.0		ug/L		90	60 - 140
Tetrachloroethene	20.0	19.8		ug/L		99	70 - 130
Tetrahydrofuran	40.0	37.7		ug/L		94	60 - 140
Toluene	20.0	21.4		ug/L		107	70 - 130
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	70 - 130
trans-1,3-Dichloropropene	20.0	19.6		ug/L		98	50 - 150
Trichloroethene	20.0	20.1		ug/L		100	65 - 135
Trichlorofluoromethane	20.0	23.1		ug/L		116	50 - 150
Vinyl acetate	40.0	40.5		ug/L		101	60 - 140
Vinyl chloride	20.0	24.6		ug/L		123	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Bromofluorobenzene	*112*		*60 - 140*
Dibromofluoromethane (Surr)	*108*		*60 - 140*
Toluene-d8 (Surr)	*117*		*60 - 140*

Lab Sample ID: LCSD 460-732477/5
Matrix: Water
Analysis Batch: 732477

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.7		ug/L		98	60 - 140	2	50
1,1,1-Trichloroethane	20.0	19.0		ug/L		95	70 - 130	0	36
1,1,2,2-Tetrachloroethane	20.0	20.9		ug/L		104	60 - 140	9	61
1,1,2-Trichloroethane	20.0	23.5		ug/L		117	70 - 130	21	45
1,1-Dichloroethane	20.0	19.1		ug/L		96	70 - 130	1	40
1,1-Dichloroethene	20.0	23.8		ug/L		119	50 - 150	6	32
1,1-Dichloropropene	20.0	19.7		ug/L		98	60 - 140	2	50
1,2,3-Trichlorobenzene	20.0	24.1		ug/L		121	60 - 140	10	50
1,2,3-Trichloropropane	20.0	20.6		ug/L		103	60 - 140	11	50
1,2,4-Trichlorobenzene	20.0	22.4		ug/L		112	60 - 140	6	50
1,2,4-Trimethylbenzene	20.0	20.2		ug/L		101	60 - 140	12	50
1,2-Dibromo-3-Chloropropane	20.0	18.6		ug/L		93	60 - 140	2	50

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-732477/5
Matrix: Water
Analysis Batch: 732477

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	20.0	20.8		ug/L		104	60 - 140	6	50
1,2-Dichlorobenzene	20.0	19.1		ug/L		95	65 - 135	2	57
1,2-Dichloroethane	20.0	19.7		ug/L		99	70 - 130	5	49
1,2-Dichloropropane	20.0	19.7		ug/L		99	35 - 165	17	55
1,3,5-Trimethylbenzene	20.0	18.8		ug/L		94	60 - 140	1	50
1,3-Dichlorobenzene	20.0	20.9		ug/L		105	70 - 130	6	43
1,3-Dichloropropane	20.0	23.3		ug/L		116	60 - 140	18	50
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	65 - 135	2	57
1,4-Dioxane	400	400		ug/L		100	60 - 140	1	50
2,2-Dichloropropane	20.0	19.3		ug/L		97	60 - 140	1	50
2-Chlorotoluene	20.0	21.2		ug/L		106	60 - 140	1	50
2-Hexanone	100	115		ug/L		115	60 - 140	16	50
4-Chlorotoluene	20.0	20.3		ug/L		101	60 - 140	3	50
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	60 - 140	17	50
Acetonitrile	200	217		ug/L		108	60 - 140	9	50
Benzene	20.0	21.0		ug/L		105	65 - 135	8	61
Benzyl chloride	20.0	15.2		ug/L		76	60 - 140	2	50
Bromobenzene	20.0	21.3		ug/L		107	60 - 140	7	50
Bromodichloromethane	20.0	19.0		ug/L		95	65 - 135	19	56
Bromoform	20.0	18.4		ug/L		92	70 - 130	3	42
Bromomethane	20.0	16.9		ug/L		84	15 - 185	3	61
Butyl acetate	20.0	19.6		ug/L		98	60 - 140	12	50
Carbon disulfide	20.0	24.1		ug/L		121	60 - 140	11	50
Carbon tetrachloride	20.0	19.4		ug/L		97	70 - 130	1	41
Chlorobenzene	20.0	20.0		ug/L		100	65 - 135	1	53
Chloroethane	20.0	24.7		ug/L		123	40 - 160	1	78
Chloroform	20.0	19.4		ug/L		97	70 - 135	1	54
Chloromethane	20.0	23.8		ug/L		119	0.1 - 205	7	60
cis-1,2-Dichloroethene	20.0	20.1		ug/L		100	60 - 140	1	50
cis-1,3-Dichloropropene	20.0	20.1		ug/L		100	25 - 175	8	58
Cyclohexane	20.0	18.8		ug/L		94	60 - 140	2	50
Dibromochloromethane	20.0	20.7		ug/L		103	70 - 135	8	50
Dibromomethane	20.0	19.2		ug/L		96	60 - 140	18	50
Dichlorodifluoromethane	20.0	21.1		ug/L		106	60 - 140	4	50
Diisopropyl ether	20.0	19.3		ug/L		96	60 - 140	1	50
Ethyl acetate	40.0	40.2		ug/L		101	60 - 140	4	50
Ethylbenzene	20.0	20.3		ug/L		101	60 - 140	1	63
Freon 113	20.0	23.1		ug/L		116	60 - 140	5	50
Hexachlorobutadiene	20.0	17.0		ug/L		85	60 - 140	7	50
Isopropyl acetate	20.0	17.9		ug/L		89	60 - 140	2	50
Isopropylbenzene	20.0	20.3		ug/L		101	60 - 140	5	50
Methyl iodide	20.0	14.5		ug/L		73	60 - 140	19	50
Methyl methacrylate	40.0	38.9		ug/L		97	60 - 140	14	50
Methylene Chloride	20.0	20.6		ug/L		103	60 - 140	7	28
m-Xylene & p-Xylene	20.0	19.8		ug/L		99	60 - 140	1	50
n-Butylbenzene	20.0	15.7		ug/L		78	60 - 140	1	50
n-Heptane	20.0	16.8		ug/L		84	60 - 140	1	50
n-Hexane	20.0	18.4		ug/L		92	60 - 140	2	50
n-Propyl acetate	20.0	16.8		ug/L		84	60 - 140	28	50

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-732477/5
Matrix: Water
Analysis Batch: 732477

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene	20.0	20.2		ug/L		101	60 - 140	2	50
o-Xylene	20.0	19.9		ug/L		100	60 - 140	1	50
p-Isopropyltoluene	20.0	17.2		ug/L		86	60 - 140	3	50
sec-Butylbenzene	20.0	19.6		ug/L		98	60 - 140	9	50
Styrene	20.0	21.0		ug/L		105	60 - 140	2	50
t-Butyl alcohol	200	189		ug/L		95	60 - 140	2	50
tert-Butylbenzene	20.0	20.4		ug/L		102	60 - 140	13	50
Tetrachloroethene	20.0	22.5		ug/L		113	70 - 130	13	39
Tetrahydrofuran	40.0	37.6		ug/L		94	60 - 140	0	50
Toluene	20.0	19.8		ug/L		99	70 - 130	8	41
trans-1,2-Dichloroethene	20.0	21.3		ug/L		107	70 - 130	7	45
trans-1,3-Dichloropropene	20.0	18.5		ug/L		93	50 - 150	6	86
Trichloroethene	20.0	20.2		ug/L		101	65 - 135	1	48
Trichlorofluoromethane	20.0	26.6		ug/L		133	50 - 150	14	84
Vinyl acetate	40.0	39.5		ug/L		99	60 - 140	2	50
Vinyl chloride	20.0	23.4		ug/L		117	5 - 195	5	66

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Bromofluorobenzene	*110*		*60 - 140*
Dibromofluoromethane (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*108*		*60 - 140*

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

Lab Sample ID: MB 460-732169/9
Matrix: Water
Analysis Batch: 732169

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.9	ug/L			10/16/20 09:42	1
Acetone	ND		5.0	4.4	ug/L			10/16/20 09:42	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			10/16/20 09:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 123*		*10/16/20 09:42*	*1*
4-Bromofluorobenzene	*101*		*76 - 120*		*10/16/20 09:42*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*10/16/20 09:42*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*10/16/20 09:42*	*1*

Lab Sample ID: LCS 460-732169/4
Matrix: Water
Analysis Batch: 732169

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	100	90.2		ug/L		90	69 - 128
Acetone	100	100		ug/L		100	61 - 134
Methyl tert-butyl ether	20.0	19.8		ug/L		99	65 - 131

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

Lab Sample ID: LCS 460-732169/4
Matrix: Water
Analysis Batch: 732169

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*
4-Bromofluorobenzene	*98*		*76 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 124*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: LCSD 460-732169/5
Matrix: Water
Analysis Batch: 732169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			100	82.3		ug/L		82	69 - 128	9	30
Acetone			100	99.1		ug/L		99	61 - 134	1	30
Methyl tert-butyl ether			20.0	20.2		ug/L		101	65 - 131	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 123*
4-Bromofluorobenzene	*94*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 124*
Toluene-d8 (Surr)	*107*		*80 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-732199/1-A
Matrix: Water
Analysis Batch: 732351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 19:31	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 19:31	1
1,2,4-Trichlorobenzene	ND		2.0	1.3	ug/L		10/16/20 08:31	10/16/20 19:31	1
1,2-Dichlorobenzene	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 19:31	1
1,2-Diphenylhydrazine	ND		10	0.37	ug/L		10/16/20 08:31	10/16/20 19:31	1
1,3-Dichlorobenzene	ND		10	2.0	ug/L		10/16/20 08:31	10/16/20 19:31	1
1,4-Dichlorobenzene	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 19:31	1
1,4-Dioxane	ND		10	1.6	ug/L		10/16/20 08:31	10/16/20 19:31	1
1-Methylnaphthalene	ND		4.0	1.1	ug/L		10/16/20 08:31	10/16/20 19:31	1
2,2'-oxybis[1-chloropropane]	ND		10	0.63	ug/L		10/16/20 08:31	10/16/20 19:31	1
2,3,4,6-Tetrachlorophenol	ND		10	0.75	ug/L		10/16/20 08:31	10/16/20 19:31	1
2,4,5-Trichlorophenol	ND		10	0.85	ug/L		10/16/20 08:31	10/16/20 19:31	1
2,4,6-Trichlorophenol	ND		10	0.70	ug/L		10/16/20 08:31	10/16/20 19:31	1
2,4-Dichlorophenol	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 19:31	1
2,4-Dimethylphenol	ND		10	0.66	ug/L		10/16/20 08:31	10/16/20 19:31	1
2,4-Dinitrophenol	ND		20	2.0	ug/L		10/16/20 08:31	10/16/20 19:31	1
2,4-Dinitrotoluene	ND		2.0	1.0	ug/L		10/16/20 08:31	10/16/20 19:31	1
2,6-Dinitrotoluene	ND		2.0	0.53	ug/L		10/16/20 08:31	10/16/20 19:31	1
2-Chloronaphthalene	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 19:31	1
2-Chlorophenol	ND		10	0.38	ug/L		10/16/20 08:31	10/16/20 19:31	1
2-Methylnaphthalene	ND		10	1.1	ug/L		10/16/20 08:31	10/16/20 19:31	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-732199/1-A
Matrix: Water
Analysis Batch: 732351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		10	0.67	ug/L		10/16/20 08:31	10/16/20 19:31	1
2-Nitroaniline	ND		10	0.47	ug/L		10/16/20 08:31	10/16/20 19:31	1
2-Nitrophenol	ND		10	0.75	ug/L		10/16/20 08:31	10/16/20 19:31	1
3,3'-Dichlorobenzidine	ND		10	1.6	ug/L		10/16/20 08:31	10/16/20 19:31	1
3-Nitroaniline	ND		10	0.96	ug/L		10/16/20 08:31	10/16/20 19:31	1
4,6-Dinitro-2-methylphenol	ND		20	3.4	ug/L		10/16/20 08:31	10/16/20 19:31	1
4-Bromophenyl phenyl ether	ND		10	0.75	ug/L		10/16/20 08:31	10/16/20 19:31	1
4-Chloro-3-methylphenol	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 19:31	1
4-Chloroaniline	ND		10	1.9	ug/L		10/16/20 08:31	10/16/20 19:31	1
4-Chlorophenyl phenyl ether	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 19:31	1
4-Methylphenol	ND		10	0.76	ug/L		10/16/20 08:31	10/16/20 19:31	1
4-Nitroaniline	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 19:31	1
4-Nitrophenol	ND		20	1.7	ug/L		10/16/20 08:31	10/16/20 19:31	1
Acenaphthene	ND		10	1.1	ug/L		10/16/20 08:31	10/16/20 19:31	1
Acenaphthylene	ND		10	0.82	ug/L		10/16/20 08:31	10/16/20 19:31	1
Acetophenone	ND		10	2.5	ug/L		10/16/20 08:31	10/16/20 19:31	1
Aniline	ND		10	1.1	ug/L		10/16/20 08:31	10/16/20 19:31	1
Anthracene	ND		10	0.63	ug/L		10/16/20 08:31	10/16/20 19:31	1
Benzidine	ND		10	5.9	ug/L		10/16/20 08:31	10/16/20 19:31	1
Benzo[a]anthracene	ND		1.0	0.59	ug/L		10/16/20 08:31	10/16/20 19:31	1
Benzo[a]pyrene	ND		1.0	0.68	ug/L		10/16/20 08:31	10/16/20 19:31	1
Benzo[b]fluoranthene	ND		2.0	1.4	ug/L		10/16/20 08:31	10/16/20 19:31	1
Benzo[g,h,i]perylene	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 19:31	1
Benzo[k]fluoranthene	ND		1.0	0.67	ug/L		10/16/20 08:31	10/16/20 19:31	1
Benzoic acid	ND		50	4.6	ug/L		10/16/20 08:31	10/16/20 19:31	1
Benzyl alcohol	ND		10	0.94	ug/L		10/16/20 08:31	10/16/20 19:31	1
Bis(2-chloroethoxy)methane	ND		10	0.64	ug/L		10/16/20 08:31	10/16/20 19:31	1
Bis(2-chloroethyl)ether	ND		1.0	0.69	ug/L		10/16/20 08:31	10/16/20 19:31	1
Bis(2-ethylhexyl) phthalate	ND		2.0	1.0	ug/L		10/16/20 08:31	10/16/20 19:31	1
Butyl benzyl phthalate	ND		10	0.85	ug/L		10/16/20 08:31	10/16/20 19:31	1
Carbazole	ND		10	0.68	ug/L		10/16/20 08:31	10/16/20 19:31	1
Chrysene	ND		2.0	0.91	ug/L		10/16/20 08:31	10/16/20 19:31	1
Dibenz(a,h)anthracene	ND		1.0	0.74	ug/L		10/16/20 08:31	10/16/20 19:31	1
Dibenzofuran	ND		10	1.1	ug/L		10/16/20 08:31	10/16/20 19:31	1
Diethyl phthalate	ND		10	0.98	ug/L		10/16/20 08:31	10/16/20 19:31	1
Dimethyl phthalate	ND		10	0.77	ug/L		10/16/20 08:31	10/16/20 19:31	1
Di-n-butyl phthalate	ND		10	0.75	ug/L		10/16/20 08:31	10/16/20 19:31	1
Di-n-octyl phthalate	ND		10	1.4	ug/L		10/16/20 08:31	10/16/20 19:31	1
Diphenyl ether	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 19:31	1
Fluoranthene	ND		10	0.84	ug/L		10/16/20 08:31	10/16/20 19:31	1
Fluorene	ND		10	0.91	ug/L		10/16/20 08:31	10/16/20 19:31	1
Hexachlorobenzene	ND		1.0	0.91	ug/L		10/16/20 08:31	10/16/20 19:31	1
Hexachlorobutadiene	ND		1.0	0.44	ug/L		10/16/20 08:31	10/16/20 19:31	1
Hexachlorocyclopentadiene	ND		10	1.7	ug/L		10/16/20 08:31	10/16/20 19:31	1
Hexachloroethane	ND		2.0	1.2	ug/L		10/16/20 08:31	10/16/20 19:31	1
Indeno[1,2,3-cd]pyrene	ND		2.0	1.3	ug/L		10/16/20 08:31	10/16/20 19:31	1
Isophorone	ND		10	0.80	ug/L		10/16/20 08:31	10/16/20 19:31	1
Naphthalene	ND		2.0	1.1	ug/L		10/16/20 08:31	10/16/20 19:31	1
n-Decane	ND		10	1.3	ug/L		10/16/20 08:31	10/16/20 19:31	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-732199/1-A
Matrix: Water
Analysis Batch: 732351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		2.0	1.6	ug/L		10/16/20 08:31	10/16/20 19:31	1
N-Nitrosodimethylamine	ND		10	1.4	ug/L		10/16/20 08:31	10/16/20 19:31	1
N-Nitrosodi-n-propylamine	ND		1.0	0.43	ug/L		10/16/20 08:31	10/16/20 19:31	1
N-Nitrosodiphenylamine	ND		10	0.89	ug/L		10/16/20 08:31	10/16/20 19:31	1
Pentachlorophenol	ND		20	3.0	ug/L		10/16/20 08:31	10/16/20 19:31	1
Phenanthrene	ND		10	0.58	ug/L		10/16/20 08:31	10/16/20 19:31	1
Phenol	ND		10	1.2	ug/L		10/16/20 08:31	10/16/20 19:31	1
Pyrene	ND		10	1.6	ug/L		10/16/20 08:31	10/16/20 19:31	1
Pyridine	ND		10	5.9	ug/L		10/16/20 08:31	10/16/20 19:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*99*		*14 - 149*	*10/16/20 08:31*	*10/16/20 19:31*	*1*
2-Fluorobiphenyl	*50*		*44 - 129*	*10/16/20 08:31*	*10/16/20 19:31*	*1*
2-Fluorophenol	*38*		*10 - 76*	*10/16/20 08:31*	*10/16/20 19:31*	*1*
Nitrobenzene-d5	*66*		*15 - 314*	*10/16/20 08:31*	*10/16/20 19:31*	*1*
Phenol-d5	*25*		*8 - 424*	*10/16/20 08:31*	*10/16/20 19:31*	*1*
Terphenyl-d14	*79*		*28 - 150*	*10/16/20 08:31*	*10/16/20 19:31*	*1*

Lab Sample ID: LCS 460-732199/2-A
Matrix: Water
Analysis Batch: 732351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	80.0	62.5		ug/L		78	60 - 140
1,2,4-Trichlorobenzene	80.0	56.1		ug/L		70	44 - 142
1,2-Dichlorobenzene	80.0	55.9		ug/L		70	25 - 101
1,2-Diphenylhydrazine	80.0	56.5		ug/L		71	60 - 140
1,3-Dichlorobenzene	80.0	53.9		ug/L		67	25 - 101
1,4-Dichlorobenzene	80.0	53.8		ug/L		67	27 - 101
1-Methylnaphthalene	80.0	60.4		ug/L		76	60 - 140
2,2'-oxybis[1-chloropropane]	80.0	60.8		ug/L		76	36 - 166
2,3,4,6-Tetrachlorophenol	80.0	75.7		ug/L		95	60 - 140
2,4,6-Trichlorophenol	80.0	70.5		ug/L		88	37 - 144
2,4-Dichlorophenol	80.0	63.2		ug/L		79	39 - 135
2,4-Dimethylphenol	80.0	59.9		ug/L		75	32 - 120
2,4-Dinitrophenol	160	252		ug/L		157	0.1 - 191
2,4-Dinitrotoluene	80.0	82.8		ug/L		104	39 - 139
2,6-Dinitrotoluene	80.0	77.2		ug/L		97	50 - 158
2-Chloronaphthalene	80.0	62.0		ug/L		78	60 - 120
2-Chlorophenol	80.0	59.6		ug/L		75	55 - 101
2-Nitrophenol	80.0	75.0		ug/L		94	29 - 182
3,3'-Dichlorobenzidine	80.0	66.7		ug/L		83	0.1 - 262
4,6-Dinitro-2-methylphenol	160	199		ug/L		125	0.1 - 181
4-Bromophenyl phenyl ether	80.0	57.7		ug/L		72	53 - 127
4-Chloro-3-methylphenol	80.0	63.0		ug/L		79	22 - 147
4-Chlorophenyl phenyl ether	80.0	65.8		ug/L		82	25 - 158
4-Nitrophenol	160	65.6		ug/L		41	0.1 - 132
Acenaphthene	80.0	64.4		ug/L		81	47 - 135

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-732199/2-A
Matrix: Water
Analysis Batch: 732351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	80.0	64.3		ug/L		80	33 - 145
Acetophenone	80.0	67.6		ug/L		85	60 - 140
Anthracene	80.0	62.2		ug/L		78	27 - 133
Benzidine	80.0	52.3		ug/L		65	0.1 - 136
Benzo[a]anthracene	80.0	58.4		ug/L		73	33 - 143
Benzo[a]pyrene	80.0	66.9		ug/L		84	17 - 163
Benzo[b]fluoranthene	80.0	67.8		ug/L		85	24 - 159
Benzo[g,h,i]perylene	80.0	81.1		ug/L		101	0.1 - 219
Benzo[k]fluoranthene	80.0	66.3		ug/L		83	11 - 162
Benzyl alcohol	80.0	52.2		ug/L		65	60 - 140
Bis(2-chloroethoxy)methane	80.0	63.9		ug/L		80	33 - 184
Bis(2-chloroethyl)ether	80.0	67.1		ug/L		84	12 - 158
Bis(2-ethylhexyl) phthalate	80.0	61.3		ug/L		77	8 - 158
Butyl benzyl phthalate	80.0	61.0		ug/L		76	0.1 - 152
Chrysene	80.0	61.1		ug/L		76	17 - 168
Dibenz(a,h)anthracene	80.0	81.1		ug/L		101	0.1 - 227
Diethyl phthalate	80.0	65.9		ug/L		82	0.1 - 120
Dimethyl phthalate	80.0	66.7		ug/L		83	0.1 - 120
Di-n-butyl phthalate	80.0	60.8		ug/L		76	1 - 120
Di-n-octyl phthalate	80.0	59.8		ug/L		75	4 - 146
Diphenyl ether	80.0	63.0		ug/L		79	60 - 140
Fluoranthene	80.0	65.8		ug/L		82	26 - 137
Fluorene	80.0	67.2		ug/L		84	59 - 121
Hexachlorobenzene	80.0	65.0		ug/L		81	0.1 - 152
Hexachlorobutadiene	80.0	56.5		ug/L		71	24 - 120
Hexachlorocyclopentadiene	80.0	48.4		ug/L		61	8 - 105
Hexachloroethane	80.0	54.7		ug/L		68	40 - 120
Indeno[1,2,3-cd]pyrene	80.0	79.3		ug/L		99	0.1 - 171
Isophorone	80.0	65.8		ug/L		82	21 - 196
Naphthalene	80.0	60.8		ug/L		76	21 - 133
n-Decane	80.0	49.6		ug/L		62	0.1 - 107
Nitrobenzene	80.0	73.0		ug/L		91	35 - 180
N-Nitrosodimethylamine	80.0	44.7		ug/L		56	25 - 76
N-Nitrosodi-n-propylamine	80.0	67.8		ug/L		85	0.1 - 230
N-Nitrosodiphenylamine	80.0	59.5		ug/L		74	60 - 140
Pentachlorophenol	160	146		ug/L		91	14 - 176
Phenanthrene	80.0	61.5		ug/L		77	54 - 120
Phenol	80.0	32.4		ug/L		40	5 - 120
Pyrene	80.0	54.8		ug/L		69	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*104*		*14 - 149*
2-Fluorobiphenyl	*76*		*44 - 129*
2-Fluorophenol	*48*		*10 - 76*
Nitrobenzene-d5	*83*		*15 - 314*
Phenol-d5	*33*		*8 - 424*
Terphenyl-d14	*77*		*28 - 150*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-732199/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 732351
Prep Batch: 732199

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl			80.0	60.0		ug/L		75	60 - 140	4	50
1,2,4-Trichlorobenzene			80.0	55.8		ug/L		70	44 - 142	1	50
1,2-Dichlorobenzene			80.0	54.0		ug/L		68	25 - 101	3	50
1,2-Diphenylhydrazine			80.0	57.0		ug/L		71	60 - 140	1	50
1,3-Dichlorobenzene			80.0	52.6		ug/L		66	25 - 101	2	50
1,4-Dichlorobenzene			80.0	52.2		ug/L		65	27 - 101	3	50
1-Methylnaphthalene			80.0	60.1		ug/L		75	60 - 140	1	50
2,2'-oxybis[1-chloropropane]			80.0	59.8		ug/L		75	36 - 166	2	76
2,3,4,6-Tetrachlorophenol			80.0	74.3		ug/L		93	60 - 140	2	50
2,4,6-Trichlorophenol			80.0	70.8		ug/L		88	37 - 144	0	58
2,4-Dichlorophenol			80.0	63.6		ug/L		80	39 - 135	1	50
2,4-Dimethylphenol			80.0	59.7		ug/L		75	32 - 120	0	58
2,4-Dinitrophenol			160	240		ug/L		150	0.1 - 191	5	132
2,4-Dinitrotoluene			80.0	80.6		ug/L		101	39 - 139	3	42
2,6-Dinitrotoluene			80.0	76.0		ug/L		95	50 - 158	2	48
2-Chloronaphthalene			80.0	60.2		ug/L		75	60 - 120	3	24
2-Chlorophenol			80.0	58.1		ug/L		73	55 - 101	3	61
2-Nitrophenol			80.0	77.7		ug/L		97	29 - 182	4	55
3,3'-Dichlorobenzidine			80.0	67.3		ug/L		84	0.1 - 262	1	108
4,6-Dinitro-2-methylphenol			160	191		ug/L		119	0.1 - 181	4	203
4-Bromophenyl phenyl ether			80.0	59.0		ug/L		74	53 - 127	2	43
4-Chloro-3-methylphenol			80.0	62.5		ug/L		78	22 - 147	1	73
4-Chlorophenyl phenyl ether			80.0	63.0		ug/L		79	25 - 158	4	61
4-Nitrophenol			160	72.8		ug/L		45	0.1 - 132	10	131
Acenaphthene			80.0	61.1		ug/L		76	47 - 135	5	48
Acenaphthylene			80.0	64.0		ug/L		80	33 - 145	0	74
Acetophenone			80.0	64.9		ug/L		81	60 - 140	4	50
Anthracene			80.0	60.0		ug/L		75	27 - 133	4	66
Benzidine			80.0	49.8		ug/L		62	0.1 - 136	5	50
Benzo[a]anthracene			80.0	58.2		ug/L		73	33 - 143	0	53
Benzo[a]pyrene			80.0	66.8		ug/L		84	17 - 163	0	72
Benzo[b]fluoranthene			80.0	64.2		ug/L		80	24 - 159	5	71
Benzo[g,h,i]perylene			80.0	83.9		ug/L		105	0.1 - 219	3	97
Benzo[k]fluoranthene			80.0	64.2		ug/L		80	11 - 162	3	63
Benzyl alcohol			80.0	53.4		ug/L		67	60 - 140	2	50
Bis(2-chloroethoxy)methane			80.0	64.2		ug/L		80	33 - 184	1	54
Bis(2-chloroethyl)ether			80.0	65.2		ug/L		82	12 - 158	3	108
Bis(2-ethylhexyl) phthalate			80.0	61.0		ug/L		76	8 - 158	1	82
Butyl benzyl phthalate			80.0	58.3		ug/L		73	0.1 - 152	5	60
Chrysene			80.0	60.9		ug/L		76	17 - 168	0	87
Dibenz(a,h)anthracene			80.0	84.6		ug/L		106	0.1 - 227	4	126
Diethyl phthalate			80.0	64.1		ug/L		80	0.1 - 120	3	100
Dimethyl phthalate			80.0	65.5		ug/L		82	0.1 - 120	2	183
Di-n-butyl phthalate			80.0	58.3		ug/L		73	1 - 120	4	47
Di-n-octyl phthalate			80.0	56.4		ug/L		70	4 - 146	6	69
Diphenyl ether			80.0	62.7		ug/L		78	60 - 140	0	50
Fluoranthene			80.0	63.2		ug/L		79	26 - 137	4	66
Fluorene			80.0	65.1		ug/L		81	59 - 121	3	38

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-732199/3-A
Matrix: Water
Analysis Batch: 732351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 732199

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene			80.0	65.4		ug/L		82	0.1 - 152	1	55
Hexachlorobutadiene			80.0	55.0		ug/L		69	24 - 120	3	62
Hexachlorocyclopentadiene			80.0	46.2		ug/L		58	8 - 105	5	50
Hexachloroethane			80.0	53.3		ug/L		67	40 - 120	2	52
Indeno[1,2,3-cd]pyrene			80.0	84.7		ug/L		106	0.1 - 171	7	99
Isophorone			80.0	65.5		ug/L		82	21 - 196	0	93
Naphthalene			80.0	60.6		ug/L		76	21 - 133	0	65
n-Decane			80.0	48.0		ug/L		60	0.1 - 107	3	50
Nitrobenzene			80.0	72.1		ug/L		90	35 - 180	1	62
N-Nitrosodimethylamine			80.0	43.8		ug/L		55	25 - 76	2	50
N-Nitrosodi-n-propylamine			80.0	66.3		ug/L		83	0.1 - 230	2	87
N-Nitrosodiphenylamine			80.0	60.7		ug/L		76	60 - 140	2	50
Pentachlorophenol			160	144		ug/L		90	14 - 176	1	86
Phenanthrene			80.0	61.3		ug/L		77	54 - 120	0	39
Phenol			80.0	30.8		ug/L		38	5 - 120	5	64
Pyrene			80.0	53.9		ug/L		67	52 - 120	2	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*98*		*14 - 149*
2-Fluorobiphenyl	*74*		*44 - 129*
2-Fluorophenol	*46*		*10 - 76*
Nitrobenzene-d5	*83*		*15 - 314*
Phenol-d5	*32*		*8 - 424*
Terphenyl-d14	*77*		*28 - 150*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 460-731874/5
Matrix: Water
Analysis Batch: 731874

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO	ND		25	25	ug/L			10/15/20 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*110*		*80 - 150*		*10/15/20 12:53*	*1*

Lab Sample ID: LCS 460-731874/2
Matrix: Water
Analysis Batch: 731874

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO			200	187		ug/L		94	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*80 - 150*

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCSD 460-731874/3
Matrix: Water
Analysis Batch: 731874

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO			200	191		ug/L		96	80 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*109*		*80 - 150*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 460-731861/1-A
Matrix: Water
Analysis Batch: 732019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C44)	0.498		0.13	0.039	mg/L		10/15/20 09:19	10/15/20 19:54	1
ORO (C28-C44)	0.402		0.10	0.029	mg/L		10/15/20 09:19	10/15/20 19:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*144*		*38 - 149*	*10/15/20 09:19*	*10/15/20 19:54*	*1*

Lab Sample ID: LCS 460-731861/2-A
Matrix: Water
Analysis Batch: 732019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731861

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*139*		*38 - 149*

Lab Sample ID: LCSD 460-731861/3-A
Matrix: Water
Analysis Batch: 732019

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731861

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*133*		*38 - 149*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-732552/3
Matrix: Water
Analysis Batch: 732552

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		320	39	ug/L			10/17/20 01:52	1
Sulfate	ND		480	160	ug/L			10/17/20 01:52	1

Lab Sample ID: LCS 460-732552/5
Matrix: Water
Analysis Batch: 732552

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			3200	3170		ug/L		99	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 460-732552/5
Matrix: Water
Analysis Batch: 732552

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	4800	5100		ug/L		106	90 - 110

Lab Sample ID: LCSD 460-732552/6
Matrix: Water
Analysis Batch: 732552

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3200	3170		ug/L		99	90 - 110	0	15
Sulfate	4800	5070		ug/L		106	90 - 110	1	15

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 460-732030/1-A
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	11	ug/L		10/15/20 17:05	10/16/20 10:38	1
Antimony	ND		2.0	0.65	ug/L		10/15/20 17:05	10/16/20 10:38	1
Arsenic	ND		2.0	0.61	ug/L		10/15/20 17:05	10/16/20 10:38	1
Barium	ND		4.0	1.0	ug/L		10/15/20 17:05	10/16/20 10:38	1
Beryllium	ND		0.80	0.060	ug/L		10/15/20 17:05	10/16/20 10:38	1
Cadmium	ND		2.0	0.43	ug/L		10/15/20 17:05	10/16/20 10:38	1
Calcium	ND		200	22	ug/L		10/15/20 17:05	10/16/20 10:38	1
Chromium	ND		4.0	0.45	ug/L		10/15/20 17:05	10/16/20 10:38	1
Cobalt	ND		4.0	0.19	ug/L		10/15/20 17:05	10/16/20 10:38	1
Copper	ND		4.0	1.1	ug/L		10/15/20 17:05	10/16/20 10:38	1
Iron	ND		120	17	ug/L		10/15/20 17:05	10/16/20 10:38	1
Lead	ND		1.2	0.071	ug/L		10/15/20 17:05	10/16/20 10:38	1
Magnesium	ND		200	27	ug/L		10/15/20 17:05	10/16/20 10:38	1
Manganese	ND		8.0	0.75	ug/L		10/15/20 17:05	10/16/20 10:38	1
Nickel	ND		4.0	0.84	ug/L		10/15/20 17:05	10/16/20 10:38	1
Potassium	ND		200	84	ug/L		10/15/20 17:05	10/16/20 10:38	1
Selenium	ND		2.5	0.39	ug/L		10/15/20 17:05	10/16/20 10:38	1
Silver	ND		2.0	0.12	ug/L		10/15/20 17:05	10/16/20 10:38	1
Sodium	ND		200	20	ug/L		10/15/20 17:05	10/16/20 10:38	1
Thallium	ND		0.80	0.15	ug/L		10/15/20 17:05	10/16/20 10:38	1
Vanadium	ND		4.0	0.24	ug/L		10/15/20 17:05	10/16/20 10:38	1
Zinc	ND		16	2.6	ug/L		10/15/20 17:05	10/16/20 10:38	1

Lab Sample ID: LCS 460-732030/2-A
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2500	2480		ug/L		99	85 - 115
Antimony	25.0	26.0		ug/L		104	85 - 115
Arsenic	50.0	50.5		ug/L		101	85 - 115
Barium	50.0	49.4		ug/L		99	85 - 115
Beryllium	25.0	24.6		ug/L		98	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-732030/2-A
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	25.0	24.4		ug/L		98	85 - 115
Calcium	2500	2580		ug/L		103	85 - 115
Chromium	50.0	50.0		ug/L		100	85 - 115
Cobalt	25.0	25.5		ug/L		102	85 - 115
Copper	50.0	50.6		ug/L		101	85 - 115
Iron	2500	2570		ug/L		103	85 - 115
Lead	25.0	23.9		ug/L		96	85 - 115
Magnesium	2500	2570		ug/L		103	85 - 115
Manganese	250	247		ug/L		99	85 - 115
Nickel	50.0	42.9		ug/L		86	85 - 115
Potassium	2500	2630		ug/L		105	85 - 115
Selenium	50.0	48.1		ug/L		96	85 - 115
Silver	25.0	24.5		ug/L		98	85 - 115
Sodium	2500	2590		ug/L		104	85 - 115
Thallium	20.0	19.3		ug/L		96	85 - 115
Vanadium	50.0	49.7		ug/L		99	85 - 115
Zinc	250	245		ug/L		98	85 - 115

Lab Sample ID: 460-220372-A-1-B MS
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	600		2500	3210		ug/L		104	70 - 130
Antimony	1.1	J	25.0	28.6		ug/L		110	70 - 130
Arsenic	1.8	J	50.0	53.2		ug/L		103	70 - 130
Barium	11		50.0	62.0		ug/L		102	70 - 130
Beryllium	0.062	J	25.0	27.3		ug/L		109	70 - 130
Cadmium	ND		25.0	25.6		ug/L		102	70 - 130
Calcium	64000		2500	69500	4	ug/L		207	70 - 130
Chromium	5.5		50.0	55.9		ug/L		101	70 - 130
Cobalt	1.7	J	25.0	27.0		ug/L		101	70 - 130
Copper	11		50.0	60.3		ug/L		98	70 - 130
Iron	11000		2500	13600	4	ug/L		111	70 - 130
Lead	1.3		25.0	26.4		ug/L		100	70 - 130
Magnesium	140000		2500	144000	4	ug/L		114	70 - 130
Manganese	210		250	454		ug/L		99	70 - 130
Nickel	ND		50.0	47.9		ug/L		96	70 - 130
Potassium	55000		2500	58500	4	ug/L		127	70 - 130
Selenium	ND		50.0	49.7		ug/L		99	70 - 130
Silver	ND		25.0	24.2		ug/L		97	70 - 130
Thallium	ND		20.0	20.1		ug/L		101	70 - 130
Vanadium	3.3	J	50.0	54.9		ug/L		103	70 - 130
Zinc	64		250	316		ug/L		101	70 - 130

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-220372-A-1-B MS ^5
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	1400000		2500	1430000	4	ug/L		1024	70 - 130

Lab Sample ID: 460-220475-A-6-A DU
Matrix: Water
Analysis Batch: 732253

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 732030

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	ND		ND		ug/L		NC	20
Antimony	ND		ND		ug/L		NC	20
Arsenic	ND		ND		ug/L		NC	20
Barium	51		51.3		ug/L		1	20
Beryllium	ND		ND		ug/L		NC	20
Cadmium	ND		ND		ug/L		NC	20
Calcium	34000		33800		ug/L		0	20
Chromium	ND		ND		ug/L		NC	20
Cobalt	ND		ND		ug/L		NC	20
Copper	ND		ND		ug/L		NC	20
Iron	ND		ND		ug/L		NC	20
Lead	ND		ND		ug/L		NC	20
Magnesium	21000		21100		ug/L		0.8	20
Manganese	1.2	J	1.40	J	ug/L		18	20
Nickel	ND		ND		ug/L		NC	20
Potassium	2900		2910		ug/L		1	20
Selenium	0.47	J	0.439	J	ug/L		7	20
Silver	ND		ND		ug/L		NC	20
Sodium	55000		55600		ug/L		1	20
Thallium	ND		ND		ug/L		NC	20
Vanadium	ND		ND		ug/L		NC	20
Zinc	8.8	J	8.29	J	ug/L		6	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 460-732271/1-A
Matrix: Water
Analysis Batch: 732318

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		10/16/20 13:04	10/16/20 13:59	1

Lab Sample ID: LCS 460-732271/2-A
Matrix: Water
Analysis Batch: 732318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	1.08		ug/L		108	85 - 115

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 460-220272-G-3-D MS
Matrix: Water
Analysis Batch: 732318

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 732271

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	1.02		ug/L		102	70 - 130

Lab Sample ID: 460-220272-G-3-C DU
Matrix: Water
Analysis Batch: 732318

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 732271

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		ug/L		NC	20

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 460-732694/1
Matrix: Water
Analysis Batch: 732694

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	ND		5.0	5.0	mg/L			10/18/20 14:31	1

Lab Sample ID: LCS 460-732694/2
Matrix: Water
Analysis Batch: 732694

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM	40.0	35.60		mg/L		89	78 - 114

Lab Sample ID: LCSD 460-732694/3
Matrix: Water
Analysis Batch: 732694

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM	40.0	34.30		mg/L		86	78 - 114	4	18

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 460-731991/10
Matrix: Water
Analysis Batch: 731991

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	0.141	J	0.50	0.11	NTU			10/15/20 16:47	1

Lab Sample ID: LCSSRM 460-731991/11
Matrix: Water
Analysis Batch: 731991

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Turbidity	13.0	12.8		NTU		98.5	84.6 - 115.4

Method: 180.1 - Turbidity, Nephelometric (Continued)

Lab Sample ID: 460-220548-W-1 DU
Matrix: Water
Analysis Batch: 731991

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Turbidity	3.4	B		3.35		NTU				0	10

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 460-733490/1-A
Matrix: Water
Analysis Batch: 733672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 733490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		50	41	ug/L		10/21/20 10:34	10/21/20 16:31	1

Lab Sample ID: LCS 460-733490/2-A
Matrix: Water
Analysis Batch: 733672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 733490

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total			400	408		ug/L		102	86 - 118		

Lab Sample ID: 460-220549-1 MS
Matrix: Water
Analysis Batch: 733672

Client Sample ID: RCS-INFLUENT
Prep Type: Total/NA
Prep Batch: 733490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total	ND	F1	400	ND	F1	ug/L		0	86 - 118		

Lab Sample ID: 460-220549-1 MSD
Matrix: Water
Analysis Batch: 733672

Client Sample ID: RCS-INFLUENT
Prep Type: Total/NA
Prep Batch: 733490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	ND	F1	400	ND	F1	ug/L		0	86 - 118	NC	30

Lab Sample ID: MRL 460-733672/11
Matrix: Water
Analysis Batch: 733672

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total			0.0500	0.0503		mg/L		101	50 - 150		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 460-733155/1
Matrix: Water
Analysis Batch: 733155

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10000	10000	ug/L			10/20/20 10:42	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSSRM 460-733155/2
Matrix: Water
Analysis Batch: 733155

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			632000	629000		ug/L		99.5	89.9 - 110.0		

Lab Sample ID: 460-220548-W-1 DU
Matrix: Water
Analysis Batch: 733155

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2700000			3080000	F3	ug/L				15	5

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 460-732833/1
Matrix: Water
Analysis Batch: 732833

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2500	2500	ug/L			10/19/20 08:41	1

Lab Sample ID: LCSSRM 460-732833/2
Matrix: Water
Analysis Batch: 732833

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			78700	72000		ug/L		91.5	81.4 - 111.6		

Lab Sample ID: 460-220835-A-10 DU
Matrix: Water
Analysis Batch: 732833

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	1000000			1130000	F3	ug/L				11	5

Method: SM 2540F - Solids, Settleable

Lab Sample ID: MB 460-731981/1
Matrix: Water
Analysis Batch: 731981

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			10/15/20 17:00	1

Method: SM 4500 H+ B - pH

Lab Sample ID: MB 460-732644/2
Matrix: Water
Analysis Batch: 732644

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.0		0.1	0.1	SU			10/18/20 12:48	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-1

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: MB 460-732644/2
Matrix: Water
Analysis Batch: 732644

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

Analyte	MB Result	MB Qualifier	RL		RL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	22.1		0.1		0.1	Degrees C			10/18/20 12:48	1

Lab Sample ID: LCSSRM 460-732644/3
Matrix: Water
Analysis Batch: 732644

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			8.31	8.2		SU		98.4	97.6 - 102.4		

Lab Sample ID: 460-220680-H-1 DU
Matrix: Water
Analysis Batch: 732644

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.3			7.3		SU				0.4	10
Temperature	20.3			20.3		Degrees C				0	

GC/MS VOA

Analysis Batch: 732169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	8260C	
460-220549-2	QAQC_TB	Total/NA	Water	8260C	
MB 460-732169/9	Method Blank	Total/NA	Water	8260C	
LCS 460-732169/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-732169/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 732477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	624.1	
460-220549-2	QAQC_TB	Total/NA	Water	624.1	
MB 460-732477/10	Method Blank	Total/NA	Water	624.1	
LCS 460-732477/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-732477/5	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 732199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	625	
MB 460-732199/1-A	Method Blank	Total/NA	Water	625	
LCS 460-732199/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 460-732199/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 732351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	625.1	732199
MB 460-732199/1-A	Method Blank	Total/NA	Water	625.1	732199
LCS 460-732199/2-A	Lab Control Sample	Total/NA	Water	625.1	732199
LCSD 460-732199/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	732199

GC VOA

Analysis Batch: 731874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	8015D	
MB 460-731874/5	Method Blank	Total/NA	Water	8015D	
LCS 460-731874/2	Lab Control Sample	Total/NA	Water	8015D	
LCSD 460-731874/3	Lab Control Sample Dup	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 731861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	3510C	
MB 460-731861/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-731861/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-731861/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 732019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	8015D	731861
MB 460-731861/1-A	Method Blank	Total/NA	Water	8015D	731861

GC Semi VOA (Continued)

Analysis Batch: 732019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-731861/2-A	Lab Control Sample	Total/NA	Water	8015D	731861
LCSD 460-731861/3-A	Lab Control Sample Dup	Total/NA	Water	8015D	731861

HPLC/IC

Analysis Batch: 732552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	300.0	
MB 460-732552/3	Method Blank	Total/NA	Water	300.0	
LCS 460-732552/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-732552/6	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 732030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total Recoverable	Water	200.8	
MB 460-732030/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 460-732030/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
460-220372-A-1-B MS	Matrix Spike	Total Recoverable	Water	200.8	
460-220372-A-1-B MS ^5	Matrix Spike	Total Recoverable	Water	200.8	
460-220475-A-6-A DU	Duplicate	Total Recoverable	Water	200.8	

Analysis Batch: 732253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total Recoverable	Water	200.8	732030
460-220549-1	RCS-INFLUENT	Total Recoverable	Water	200.8	732030
MB 460-732030/1-A	Method Blank	Total Recoverable	Water	200.8	732030
LCS 460-732030/2-A	Lab Control Sample	Total Recoverable	Water	200.8	732030
460-220372-A-1-B MS	Matrix Spike	Total Recoverable	Water	200.8	732030
460-220372-A-1-B MS ^5	Matrix Spike	Total Recoverable	Water	200.8	732030
460-220475-A-6-A DU	Duplicate	Total Recoverable	Water	200.8	732030

Prep Batch: 732271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	245.1	
MB 460-732271/1-A	Method Blank	Total/NA	Water	245.1	
LCS 460-732271/2-A	Lab Control Sample	Total/NA	Water	245.1	
460-220272-G-3-D MS	Matrix Spike	Total/NA	Water	245.1	
460-220272-G-3-C DU	Duplicate	Total/NA	Water	245.1	

Analysis Batch: 732318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	245.1	732271
MB 460-732271/1-A	Method Blank	Total/NA	Water	245.1	732271
LCS 460-732271/2-A	Lab Control Sample	Total/NA	Water	245.1	732271
460-220272-G-3-D MS	Matrix Spike	Total/NA	Water	245.1	732271
460-220272-G-3-C DU	Duplicate	Total/NA	Water	245.1	732271

General Chemistry

Analysis Batch: 731981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	SM 2540F	
MB 460-731981/1	Method Blank	Total/NA	Water	SM 2540F	

Analysis Batch: 731991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	180.1	
MB 460-731991/10	Method Blank	Total/NA	Water	180.1	
LCSSRM 460-731991/11	Lab Control Sample	Total/NA	Water	180.1	
460-220548-W-1 DU	Duplicate	Total/NA	Water	180.1	

Analysis Batch: 732644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	SM 4500 H+ B	
MB 460-732644/2	Method Blank	Total/NA	Water	SM 4500 H+ B	
LCSSRM 460-732644/3	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
460-220680-H-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 732694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	1664A	
MB 460-732694/1	Method Blank	Total/NA	Water	1664A	
LCS 460-732694/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 460-732694/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 732833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	SM 2540D	
MB 460-732833/1	Method Blank	Total/NA	Water	SM 2540D	
LCSSRM 460-732833/2	Lab Control Sample	Total/NA	Water	SM 2540D	
460-220835-A-10 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 733155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	SM 2540C	
MB 460-733155/1	Method Blank	Total/NA	Water	SM 2540C	
LCSSRM 460-733155/2	Lab Control Sample	Total/NA	Water	SM 2540C	
460-220548-W-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Prep Batch: 733490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	Distill/Phenol	
MB 460-733490/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 460-733490/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
460-220549-1 MS	RCS-INFLUENT	Total/NA	Water	Distill/Phenol	
460-220549-1 MSD	RCS-INFLUENT	Total/NA	Water	Distill/Phenol	

Analysis Batch: 733672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	420.1	733490
MB 460-733490/1-A	Method Blank	Total/NA	Water	420.1	733490
LCS 460-733490/2-A	Lab Control Sample	Total/NA	Water	420.1	733490

General Chemistry (Continued)

Analysis Batch: 733672 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 460-733672/11	Lab Control Sample	Total/NA	Water	420.1	
460-220549-1 MS	RCS-INFLUENT	Total/NA	Water	420.1	733490
460-220549-1 MSD	RCS-INFLUENT	Total/NA	Water	420.1	733490

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-1

Client Sample ID: RCS-INFLUENT

Lab Sample ID: 460-220549-1

Date Collected: 10/14/20 08:55

Matrix: Water

Date Received: 10/14/20 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	732477	10/17/20 20:02	AMS	TAL EDI
Total/NA	Analysis	8260C		1	732169	10/16/20 17:43	CJM	TAL EDI
Total/NA	Prep	625			732199	10/16/20 08:31	RPC	TAL EDI
Total/NA	Analysis	625.1		1	732351	10/16/20 20:34	YAH	TAL EDI
Total/NA	Analysis	8015D		2	731874	10/15/20 17:32	AVM	TAL EDI
Total/NA	Prep	3510C			731861	10/15/20 09:19	OTS	TAL EDI
Total/NA	Analysis	8015D		1	732019	10/15/20 23:14	KMH	TAL EDI
Total/NA	Analysis	300.0		16	732552	10/17/20 09:34	CDC	TAL EDI
Total Recoverable	Prep	200.8			732030	10/15/20 17:05	GAE	TAL EDI
Total Recoverable	Analysis	200.8		1	732253	10/16/20 13:32	MDC	TAL EDI
Total Recoverable	Prep	200.8			732030	10/15/20 17:05	GAE	TAL EDI
Total Recoverable	Analysis	200.8		5	732253	10/16/20 13:46	MDC	TAL EDI
Total/NA	Prep	245.1			732271	10/16/20 13:04	RBS	TAL EDI
Total/NA	Analysis	245.1		1	732318	10/16/20 14:23	RBS	TAL EDI
Total/NA	Analysis	1664A		1	732694	10/18/20 14:31	AAA	TAL EDI
Total/NA	Analysis	180.1		2	731991	10/15/20 16:47	VBG	TAL EDI
Total/NA	Prep	Distill/Phenol			733490	10/21/20 10:34	RAK	TAL EDI
Total/NA	Analysis	420.1		1	733672	10/21/20 16:31	HTV	TAL EDI
Total/NA	Analysis	SM 2540C		1	733155	10/20/20 10:42	PLS	TAL EDI
Total/NA	Analysis	SM 2540D		1	732833	10/19/20 08:41	PLS	TAL EDI
Total/NA	Analysis	SM 2540F		1	731981	10/15/20 17:00	VBG	TAL EDI
Total/NA	Analysis	SM 4500 H+ B		1	732644	10/18/20 13:31	AAP	TAL EDI

Client Sample ID: QAQC_TB

Lab Sample ID: 460-220549-2

Date Collected: 10/14/20 08:55

Matrix: Water

Date Received: 10/14/20 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	732477	10/17/20 13:13	AMS	TAL EDI
Total/NA	Analysis	8260C		1	732169	10/16/20 11:42	CJM	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220549-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

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
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	4-Methyl-2-pentanone (MIBK)
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Diisopropyl ether
624.1		Water	Ethyl acetate
624.1		Water	Hexachlorobutadiene
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	sec-Butylbenzene
624.1		Water	tert-Butylbenzene
625.1	625	Water	1,1'-Biphenyl
625.1	625	Water	1,2,4,5-Tetrachlorobenzene
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
625.1	625	Water	1,4-Dioxane

Laboratory: Eurofins TestAmerica, Edison (Continued)

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

625.1	625	Water	1-Methylnaphthalene
625.1	625	Water	2,3,4,6-Tetrachlorophenol
625.1	625	Water	2-Methylnaphthalene
625.1	625	Water	2-Nitroaniline
625.1	625	Water	3-Nitroaniline
625.1	625	Water	4-Chloroaniline
625.1	625	Water	4-Nitroaniline
625.1	625	Water	Benzoic acid
625.1	625	Water	Benzyl alcohol
625.1	625	Water	Dibenzofuran
625.1	625	Water	Diphenyl ether
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220549-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL EDI
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL EDI
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
200.8	Metals (ICP/MS)	EPA	TAL EDI
245.1	Mercury (CVAA)	EPA	TAL EDI
1664A	HEM and SGT-HEM	1664A	TAL EDI
180.1	Turbidity, Nephelometric	MCAWW	TAL EDI
420.1	Phenolics, Total Recoverable	MCAWW	TAL EDI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL EDI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL EDI
SM 2540F	Solids, Settleable	SM	TAL EDI
SM 4500 H+ B	pH	SM	TAL EDI
200.8	Preparation, Total Recoverable Metals	EPA	TAL EDI
245.1	Preparation, Mercury	EPA	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
625	Liquid-Liquid Extraction	40CFR136A	TAL EDI
Distill/Phenol	Distillation, Phenolics	None	TAL EDI

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-220549-1	RCS-INFLUENT	Water	10/14/20 08:55	10/14/20 19:00	
460-220549-2	QAQC_TB	Water	10/14/20 08:55	10/14/20 19:00	

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: DK	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-130510-84480.1
Client Contact: Matthew Mueller	Phone:	E-Mail: Melissa.Haas@Eurofinset.com		Page: Page 1 of 1
Company: Roux Environmental Eng & Geology DPC				Job #: 220549
Address: 209 Shafter St	Due Date Requested:			
City: Islandia	TAT Requested (days): 5 Day (See comments)			
State, Zip: NY, 11749				
Phone: 716-472-2725(Tel)	PO #: 0172.0030Y060			
Email: mmueller@rouxinc.com	WO #:			
Project Name: EMGPRP-31097	Project #: 46032869			
Analysis Group: Annual Performance Sampling	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Volatile Organic Compounds Method:624.1_PREC	Volatile Organic Compounds (MEK, MTBE, Acetone) Method: 8260C	GRO Method: 8015D_GRO	ORO/DRO Method: 8015D-DRO	Semivolatile Organic Compounds Method: 625.1_PREC	Metals (TAL) Method: 200.8	Mercury Method: 245.1	Langalier Index Method: 203	Anions, Ion Chromatography Method: 300_ORGFM_28D	Nitrogen, Total Kjeldahl Method: 351.2	Nitrogen, Nitrate-Nitrite Method: 353.2	Phosphorus Method: 4500_P_E	Phenolics, Total Recoverable Method: 420.1	HEM and SGT-HEM Method: 1664A_NP	pH Method: SM4500_H+	COD Method: 410.4	Turbidity, Nephelometric Method: 180.1	Alkalinity Method: 2320B	Hardness, Total (mg/l as CaCO3) Method: 2340C	Conductivity, Specific Conductance Method: 2510B	Solids, Total Dissolved (TDS) Method: 2540C	Solids, Total Suspended (TSS) Method: 2540D	Solids, Settleable Method: SM2540F	BOD, 5-Day Method: 5210B	Dissolved Gases (GC) (Methane, Ethane, Ethene) Method: RSK_175	Organochlorine Pesticides in Water Method: 608.3_PREC	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	N	A	N	N	D	D	N	N	S	N	S	S	A	N	S	N	N	N	N	N	N	N	N	A	N		
RCS-INFLUENT	10/14/20	8:55	G	W	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	33	Methods 203, 351.2, 353.2, 4500_P_E, 410.3, 2320B, 2340C, 2510B, 5210B, RSK_175, 608.3_PREC to be reported separately (10 Day TAT) Field Temp: 17.70°C Field pH: 7.42
QAQC_TB	10/9/20			W			X	X																							X		4	Trip Blank 2

460-220549 Chain of Custody

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

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

Deliverable Requested: I, II, III, IV, Other (specify): Level 2, EDD (EQuIS and Excel)

Special Instructions/QC Requirements: **NOTE SHORT HOLDS**

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

	Date/Time	Company		Date/Time	Company
Relinquished by: Natalia B.	10/14/2020 16:00	ROUX	Received by: Samuel	10/14/20 16:00	NA
Relinquished by: Samuel	10/14/20 19:00	NA	Received by: Joseph	10/14/20 1900	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 002256

Cooler Temperature(s) °C and Other Remarks: IR11 0.9°C

Ver: 01/16/2019

10/23/2020

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 220549

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	℃	℃	Cooler #4:	℃	℃	Cooler #7:	℃	℃
Cooler #2:	℃	℃	Cooler #5:	℃	℃	Cooler #8:	℃	℃
Cooler #3:	℃	℃	Cooler #6:	℃	℃	Cooler #9:	℃	℃

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1		<2		<2	<2			<2		<2			<2		

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: K.A. **Date:** 10/14/20

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-220549-1

Login Number: 220549
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-220549-2
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

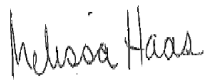
Attn: Matthew Mueller

Melissa Haas

Authorized for release by:
10/27/2020 3:39:29 PM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
10/27/2020 3:39:29 PM

Table of Contents

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220549-2
Project/Site: EMGPRP-31097

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 460-220549-2

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: Roux Environmental Eng & Geology DPC

Project: EMGPRP-31097

Report Number: 460-220549-2

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/14/2020 7:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions

Per laboratory policy the trip blank sample date/time was changed to reflect the latest sample date/time of the sampling event. The client confirmed that RSK is not needed for the trip blank.

The following sample was analyzed for COD by method 410.4 due to chloride <1000 mg/L RCS-INFLUENT (460-220549-1)

DISSOLVED GASES

Sample RCS-INFLUENT (460-220549-1) was analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/21/2020.

The following sample was diluted to bring the concentration of target analytes within the calibration range: RCS-INFLUENT (460-220549-1). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the dissolved gases analysis.

All quality control parameters were within the acceptance limits.

ORGANOCHLORINE PESTICIDES AND POLYCHLORINATED BIPHENYLS BY GAS CHROMATOGRAPHY

Sample RCS-INFLUENT (460-220549-1) was analyzed for Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography in accordance with 608.3. The samples were prepared on 10/15/2020 and analyzed on 10/19/2020.

Job ID: 460-220549-2 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

No difficulties were encountered during the Pesticides/PCBs analysis.

All quality control parameters were within the acceptance limits.

LANGLIER INDEX
Sample RCS-INFLUENT (460-220549-1) was analyzed for Langlier Index in accordance with SM203. The samples were analyzed on 10/22/2020.

No difficulties were encountered during the Langlier Index analysis.

All quality control parameters were within the acceptance limits.

ALKALINITY
Sample RCS-INFLUENT (460-220549-1) was analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 10/15/2020.

No difficulties were encountered during the alkalinity analysis.

All quality control parameters were within the acceptance limits.

HARDNESS
Sample RCS-INFLUENT (460-220549-1) was analyzed for hardness in accordance with SM 2340C. The samples were analyzed on 10/20/2020.

No difficulties were encountered during the hardness analysis.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTANCE
Sample RCS-INFLUENT (460-220549-1) was analyzed for specific conductance in accordance with SM 2510B. The samples were analyzed on 10/17/2020.

No difficulties were encountered during the specific conductance analysis.

All quality control parameters were within the acceptance limits.

TOTAL KJELDAHL NITROGEN
Sample RCS-INFLUENT (460-220549-1) was analyzed for total kjeldahl nitrogen in accordance with EPA Method 351.2. The samples were prepared on 10/25/2020 and analyzed on 10/26/2020.

Total Kjeldahl Nitrogen failed the recovery criteria low for the MS of sample 460-220548-1 in batch 480-555780.

Refer to the QC report for details.

No other difficulties were encountered during the TKN analysis.

All other quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN
Sample RCS-INFLUENT (460-220549-1) was analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 10/15/2020.

No difficulties were encountered during the nitrate-nitrite analysis.

All quality control parameters were within the acceptance limits.

Job ID: 460-220549-2 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

CHEMICAL OXYGEN DEMAND
Sample RCS-INFLUENT (460-220549-1) was analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were analyzed on 10/23/2020.

No difficulties were encountered during the COD analysis.

All quality control parameters were within the acceptance limits.

PHOSPHORUS AS P
Sample RCS-INFLUENT (460-220549-1) was analyzed for phosphorus as P in accordance with SM 4500 P E. The samples were prepared and analyzed on 10/17/2020.

No difficulties were encountered during the phosphorus analysis.

All quality control parameters were within the acceptance limits.

BIOCHEMICAL OXYGEN DEMAND 5 DAY
Sample RCS-INFLUENT (460-220549-1) was analyzed for Biochemical Oxygen Demand 5 Day in accordance with SM 5210B. The samples were analyzed on 10/15/2020.

No difficulties were encountered during the BOD5 analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220549-2
Project/Site: EMGPRP-31097

Client Sample ID: RCS-INFLUENT
Lab Sample ID: 460-220549-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane - DL	1300		88	22	ug/L	22		RSK-175	Total/NA
Langelier Index	0.40				LangSU	1		203	Total/NA
Total Kjeldahl Nitrogen	1400		200	180	ug/L	1		351.2	Total/NA
Nitrate as N	170		100	16	ug/L	1		353.2	Total/NA
Nitrate Nitrite as N	210		100	22	ug/L	1		353.2	Total/NA
Nitrite as N	45	J	100	10	ug/L	1		353.2	Total/NA
Chemical Oxygen Demand	9300	J	10000	3300	ug/L	1		410.4	Total/NA
Total Alkalinity	380000		5000	5000	ug/L	1		SM 2320B	Total/NA
Hardness as calcium carbonate	980000		50000	50000	ug/L	1		SM 2340C	Total/NA
Specific Conductance	4100		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA
Phosphorus as P	140		30	23	ug/L	1		SM 4500 P E	Total/NA
Biochemical Oxygen Demand	3000		1000	1000	ug/L	1		SM 5210B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RCS-INFLUENT
Lab Sample ID: 460-220549-1

Date Collected: 10/14/20 08:55
Matrix: Water
Date Received: 10/14/20 19:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/21/20 09:59	1
Ethene	ND		7.0	1.5	ug/L			10/21/20 09:59	1

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**1300**		88	22	ug/L			10/21/20 12:49	22

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.040	0.0040	ug/L		10/15/20 14:41	10/19/20 11:42	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/15/20 14:41	10/19/20 11:42	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 11:42	1
Aldrin	ND		0.020	0.0030	ug/L		10/15/20 14:41	10/19/20 11:42	1
alpha-BHC	ND		0.020	0.013	ug/L		10/15/20 14:41	10/19/20 11:42	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 11:42	1
beta-BHC	ND		0.030	0.013	ug/L		10/15/20 14:41	10/19/20 11:42	1
Chlordane	ND		0.50	0.22	ug/L		10/15/20 14:41	10/19/20 11:42	1
delta-BHC	ND		0.020	0.0020	ug/L		10/15/20 14:41	10/19/20 11:42	1
Dieldrin	ND		0.020	0.0080	ug/L		10/15/20 14:41	10/19/20 11:42	1
Endosulfan I	ND		0.030	0.023	ug/L		10/15/20 14:41	10/19/20 11:42	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 11:42	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 11:42	1
Endrin	ND		0.030	0.025	ug/L		10/15/20 14:41	10/19/20 11:42	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 11:42	1
Endrin ketone	ND		0.030	0.014	ug/L		10/15/20 14:41	10/19/20 11:42	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 11:42	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/15/20 14:41	10/19/20 11:42	1
Heptachlor	ND		0.030	0.0080	ug/L		10/15/20 14:41	10/19/20 11:42	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 11:42	1
Methoxychlor	ND		0.040	0.036	ug/L		10/15/20 14:41	10/19/20 11:42	1
Toxaphene	ND		0.50	0.035	ug/L		10/15/20 14:41	10/19/20 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*10 - 150*	*10/15/20 14:41*	*10/19/20 11:42*	*1*
DCB Decachlorobiphenyl	*96*		*10 - 150*	*10/15/20 14:41*	*10/19/20 11:42*	*1*
Tetrachloro-m-xylene	*100*		*10 - 150*	*10/15/20 14:41*	*10/19/20 11:42*	*1*
Tetrachloro-m-xylene	*90*		*10 - 150*	*10/15/20 14:41*	*10/19/20 11:42*	*1*

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Langelier Index	**0.40**				LangSU			10/22/20 11:18	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	**1400**		200	180	ug/L		10/25/20 10:41	10/26/20 09:15	1
Nitrate as N	**170**		100	16	ug/L			10/15/20 20:20	1
Nitrate Nitrite as N	**210**		100	22	ug/L			10/15/20 20:20	1
Nitrite as N	**45**	**J**	100	10	ug/L			10/15/20 20:20	1
Chemical Oxygen Demand	**9300**	**J**	10000	3300	ug/L			10/23/20 14:23	1
Phosphorus as P	**140**		30	23	ug/L		10/17/20 12:00	10/17/20 14:30	1
Biochemical Oxygen Demand	**3000**		1000	1000	ug/L			10/15/20 14:50	1

Client Sample Results

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220549-2
Project/Site: EMGPRP-31097

Client Sample ID: RCS-INFLUENT
Lab Sample ID: 460-220549-1

Date Collected: 10/14/20 08:55
Matrix: Water
Date Received: 10/14/20 19:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	380000		5000	5000	ug/L			10/15/20 06:28	1
Hardness as calcium carbonate	980000		50000	50000	ug/L			10/20/20 15:05	1
Specific Conductance	4100		1.0	1.0	umhos/cm			10/17/20 11:30	1

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-2

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCBP1	DCBP2	TCX1	TCX2				
Lab Sample ID	Client Sample ID	(10-150)	(10-150)	(10-150)	(10-150)				
460-220549-1	RCS-INFLUENT	96	103	90	100				
LCS 460-731940/2-A	Lab Control Sample	86	78	83	80				
LCS 460-731940/6-A	Lab Control Sample	86	75	89	102				
LCSD 460-731940/3-A	Lab Control Sample Dup	85	81	87	84				
LCSD 460-731940/7-A	Lab Control Sample Dup	81	76	90	109				
MB 460-731940/1-A	Method Blank	86	82	83	84				

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-554924/3
Matrix: Water
Analysis Batch: 554924

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/21/20 08:24	1
Ethene	ND		7.0	1.5	ug/L			10/21/20 08:24	1
Methane	ND		4.0	1.0	ug/L			10/21/20 08:24	1

Lab Sample ID: LCS 480-554924/4
Matrix: Water
Analysis Batch: 554924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	34.8		ug/L		95	79 - 120
Ethene	33.7	32.7		ug/L		97	85 - 120
Methane	19.2	17.9		ug/L		93	85 - 120

Lab Sample ID: LCSD 480-554924/5
Matrix: Water
Analysis Batch: 554924

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	36.8	35.5		ug/L		97	79 - 120	2	50
Ethene	33.7	33.2		ug/L		98	85 - 120	2	50
Methane	19.2	18.2		ug/L		95	85 - 120	2	50

Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Lab Sample ID: MB 460-731940/1-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.040	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
4,4'-DDD	ND		0.040	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/15/20 14:41	10/19/20 09:22	1
4,4'-DDE	ND		0.030	0.0020	ug/L		10/15/20 14:41	10/19/20 09:22	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
4,4'-DDT	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
Aldrin	ND		0.020	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
Aldrin	ND		0.020	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
alpha-BHC	ND		0.020	0.013	ug/L		10/15/20 14:41	10/19/20 09:22	1
alpha-BHC	ND		0.020	0.013	ug/L		10/15/20 14:41	10/19/20 09:22	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
alpha-Chlordane	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
beta-BHC	ND		0.030	0.013	ug/L		10/15/20 14:41	10/19/20 09:22	1
beta-BHC	ND		0.030	0.013	ug/L		10/15/20 14:41	10/19/20 09:22	1
Chlordane	ND		0.50	0.22	ug/L		10/15/20 14:41	10/19/20 09:22	1
Chlordane	ND		0.50	0.22	ug/L		10/15/20 14:41	10/19/20 09:22	1
delta-BHC	ND		0.020	0.0020	ug/L		10/15/20 14:41	10/19/20 09:22	1
delta-BHC	ND		0.020	0.0020	ug/L		10/15/20 14:41	10/19/20 09:22	1
Dieldrin	ND		0.020	0.0080	ug/L		10/15/20 14:41	10/19/20 09:22	1
Dieldrin	ND		0.020	0.0080	ug/L		10/15/20 14:41	10/19/20 09:22	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-2

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: MB 460-731940/1-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.030	0.023	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endosulfan I	ND		0.030	0.023	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endosulfan II	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endosulfan sulfate	ND		0.030	0.0060	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin	ND		0.030	0.025	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin	ND		0.030	0.025	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin aldehyde	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin ketone	ND		0.030	0.014	ug/L		10/15/20 14:41	10/19/20 09:22	1
Endrin ketone	ND		0.030	0.014	ug/L		10/15/20 14:41	10/19/20 09:22	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
gamma-BHC (Lindane)	ND		0.030	0.0030	ug/L		10/15/20 14:41	10/19/20 09:22	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/15/20 14:41	10/19/20 09:22	1
gamma-Chlordane	ND		0.040	0.022	ug/L		10/15/20 14:41	10/19/20 09:22	1
Heptachlor	ND		0.030	0.0080	ug/L		10/15/20 14:41	10/19/20 09:22	1
Heptachlor	ND		0.030	0.0080	ug/L		10/15/20 14:41	10/19/20 09:22	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
Heptachlor epoxide	ND		0.030	0.0040	ug/L		10/15/20 14:41	10/19/20 09:22	1
Methoxychlor	ND		0.040	0.036	ug/L		10/15/20 14:41	10/19/20 09:22	1
Methoxychlor	ND		0.040	0.036	ug/L		10/15/20 14:41	10/19/20 09:22	1
Toxaphene	ND		0.50	0.035	ug/L		10/15/20 14:41	10/19/20 09:22	1
Toxaphene	ND		0.50	0.035	ug/L		10/15/20 14:41	10/19/20 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*10 - 150*	*10/15/20 14:41*	*10/19/20 09:22*	*1*
DCB Decachlorobiphenyl	*86*		*10 - 150*	*10/15/20 14:41*	*10/19/20 09:22*	*1*
Tetrachloro-m-xylene	*84*		*10 - 150*	*10/15/20 14:41*	*10/19/20 09:22*	*1*
Tetrachloro-m-xylene	*83*		*10 - 150*	*10/15/20 14:41*	*10/19/20 09:22*	*1*

Lab Sample ID: LCS 460-731940/2-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.800	0.817		ug/L		102	31 - 141
4,4'-DDD	0.800	0.878		ug/L		110	31 - 141
4,4'-DDE	0.800	0.874		ug/L		109	30 - 145
4,4'-DDE	0.800	0.888		ug/L		111	30 - 145
4,4'-DDT	0.800	0.784		ug/L		98	25 - 160
4,4'-DDT	0.800	0.874		ug/L		109	25 - 160
Aldrin	0.800	0.948		ug/L		119	42 - 140
Aldrin	0.800	0.918		ug/L		115	42 - 140
alpha-BHC	0.800	0.862		ug/L		108	37 - 140
alpha-BHC	0.800	0.878		ug/L		110	37 - 140
alpha-Chlordane	0.800	0.782		ug/L		98	45 - 140
alpha-Chlordane	0.800	0.900		ug/L		112	45 - 140

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCS 460-731940/2-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	0.800	0.800		ug/L		100	17 - 147
beta-BHC	0.800	0.840		ug/L		105	17 - 147
delta-BHC	0.800	0.963		ug/L		120	19 - 140
delta-BHC	0.800	0.936		ug/L		117	19 - 140
Dieldrin	0.800	0.833		ug/L		104	36 - 146
Dieldrin	0.800	0.869		ug/L		109	36 - 146
Endosulfan I	0.800	0.859		ug/L		107	45 - 153
Endosulfan I	0.800	0.952		ug/L		119	45 - 153
Endosulfan II	0.800	0.835		ug/L		104	0.1 - 202
Endosulfan II	0.800	0.866		ug/L		108	0.1 - 202
Endosulfan sulfate	0.800	0.856		ug/L		107	26 - 144
Endosulfan sulfate	0.800	1.06		ug/L		132	26 - 144
Endrin	0.800	0.877		ug/L		110	30 - 147
Endrin	0.800	0.863		ug/L		108	30 - 147
Endrin aldehyde	0.800	0.826		ug/L		103	60 - 150
Endrin aldehyde	0.800	0.815		ug/L		102	60 - 150
Endrin ketone	0.800	1.26	*	ug/L		158	17 - 150
Endrin ketone	0.800	0.846		ug/L		106	17 - 150
gamma-BHC (Lindane)	0.800	0.899		ug/L		112	32 - 140
gamma-BHC (Lindane)	0.800	0.856		ug/L		107	32 - 140
gamma-Chlordane	0.800	0.823		ug/L		103	45 - 140
gamma-Chlordane	0.800	0.889		ug/L		111	45 - 140
Heptachlor	0.800	0.703		ug/L		88	34 - 140
Heptachlor	0.800	0.782		ug/L		98	34 - 140
Heptachlor epoxide	0.800	0.823		ug/L		103	37 - 142
Heptachlor epoxide	0.800	0.871		ug/L		109	37 - 142
Methoxychlor	0.800	0.620		ug/L		78	64 - 150
Methoxychlor	0.800	0.707		ug/L		88	64 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*78*		*10 - 150*
DCB Decachlorobiphenyl	*86*		*10 - 150*
Tetrachloro-m-xylene	*80*		*10 - 150*
Tetrachloro-m-xylene	*83*		*10 - 150*

Lab Sample ID: LCS 460-731940/6-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlordane	8.00	8.56		ug/L		107	45 - 119
Chlordane	8.00	8.93		ug/L		112	45 - 119
Toxaphene	8.00	6.63		ug/L		83	41 - 140
Toxaphene	8.00	6.47		ug/L		81	41 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*75*		*10 - 150*
DCB Decachlorobiphenyl	*86*		*10 - 150*

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCS 460-731940/6-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731940

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*102*		*10 - 150*
Tetrachloro-m-xylene	*89*		*10 - 150*

Lab Sample ID: LCSD 460-731940/3-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731940

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.800	0.859		ug/L		107	31 - 141	5	39
4,4'-DDD			0.800	0.931		ug/L		116	31 - 141	6	39
4,4'-DDE			0.800	0.918		ug/L		115	30 - 145	5	35
4,4'-DDE			0.800	0.953		ug/L		119	30 - 145	7	35
4,4'-DDT			0.800	0.821		ug/L		103	25 - 160	5	32
4,4'-DDT			0.800	0.866		ug/L		108	25 - 160	1	32
Aldrin			0.800	0.991		ug/L		124	42 - 140	4	35
Aldrin			0.800	0.940		ug/L		118	42 - 140	2	35
alpha-BHC			0.800	0.932		ug/L		117	37 - 140	6	36
alpha-BHC			0.800	0.917		ug/L		115	37 - 140	6	36
alpha-Chlordane			0.800	0.804		ug/L		100	45 - 140	3	35
alpha-Chlordane			0.800	0.928		ug/L		116	45 - 140	3	35
beta-BHC			0.800	0.847		ug/L		106	17 - 147	6	44
beta-BHC			0.800	0.864		ug/L		108	17 - 147	3	44
delta-BHC			0.800	0.995		ug/L		124	19 - 140	3	52
delta-BHC			0.800	0.964		ug/L		121	19 - 140	3	52
Dieldrin			0.800	0.867		ug/L		108	36 - 146	4	49
Dieldrin			0.800	0.879		ug/L		110	36 - 146	1	49
Endosulfan I			0.800	0.898		ug/L		112	45 - 153	4	28
Endosulfan I			0.800	0.941		ug/L		118	45 - 153	1	28
Endosulfan II			0.800	0.869		ug/L		109	0.1 - 202	0	53
Endosulfan II			0.800	0.867		ug/L		108	0.1 - 202	4	53
Endosulfan sulfate			0.800	0.885		ug/L		111	26 - 144	3	38
Endosulfan sulfate			0.800	1.00		ug/L		125	26 - 144	5	38
Endrin			0.800	0.890		ug/L		111	30 - 147	1	48
Endrin			0.800	0.843		ug/L		105	30 - 147	2	48
Endrin aldehyde			0.800	0.873		ug/L		109	60 - 150	6	40
Endrin aldehyde			0.800	0.821		ug/L		103	60 - 150	1	40
Endrin ketone			0.800	1.31	*	ug/L		163	17 - 150	4	40
Endrin ketone			0.800	0.855		ug/L		107	17 - 150	1	40
gamma-BHC (Lindane)			0.800	0.939		ug/L		117	32 - 140	4	39
gamma-BHC (Lindane)			0.800	0.895		ug/L		112	32 - 140	4	39
gamma-Chlordane			0.800	0.858		ug/L		107	45 - 140	4	35
gamma-Chlordane			0.800	0.915		ug/L		114	45 - 140	3	35
Heptachlor			0.800	0.751		ug/L		94	34 - 140	7	43
Heptachlor			0.800	0.814		ug/L		102	34 - 140	4	43
Heptachlor epoxide			0.800	0.863		ug/L		108	37 - 142	5	26
Heptachlor epoxide			0.800	0.894		ug/L		112	37 - 142	3	26
Methoxychlor			0.800	0.648		ug/L		81	64 - 150	4	40
Methoxychlor			0.800	0.705		ug/L		88	64 - 150	0	40

Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCSD 460-731940/3-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731940

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*10 - 150*
DCB Decachlorobiphenyl	*85*		*10 - 150*
Tetrachloro-m-xylene	*84*		*10 - 150*
Tetrachloro-m-xylene	*87*		*10 - 150*

Lab Sample ID: LCSD 460-731940/7-A
Matrix: Water
Analysis Batch: 732814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731940

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlordane			8.00	8.01		ug/L		100	45 - 119	7	42
Chlordane			8.00	8.58		ug/L		107	45 - 119	4	42
Toxaphene			8.00	6.21		ug/L		78	41 - 140	7	41
Toxaphene			8.00	6.06		ug/L		76	41 - 140	7	41

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*10 - 150*
DCB Decachlorobiphenyl	*81*		*10 - 150*
Tetrachloro-m-xylene	*109*		*10 - 150*
Tetrachloro-m-xylene	*90*		*10 - 150*

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-555644/1-A
Matrix: Water
Analysis Batch: 555780

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		200	180	ug/L		10/25/20 10:41	10/26/20 08:49	1

Lab Sample ID: LCS 480-555644/2-A
Matrix: Water
Analysis Batch: 555780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555644

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen			2500	2390		ug/L		96	90 - 110

Lab Sample ID: 460-220548-O-1-B MS
Matrix: Water
Analysis Batch: 555780

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 555644

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	680	F1	1000	1510	F1	ug/L		83	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 460-220549-1 DU
Matrix: Water
Analysis Batch: 555780

Client Sample ID: RCS-INFLUENT
Prep Type: Total/NA
Prep Batch: 555644

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	1400		1540		ug/L		9	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 460-732089/14
Matrix: Water
Analysis Batch: 732089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		100	16	ug/L			10/15/20 20:10	1
Nitrate Nitrite as N	ND		100	22	ug/L			10/15/20 20:10	1
Nitrite as N	ND		100	10	ug/L			10/15/20 20:10	1

Lab Sample ID: LCSSRM 460-732089/15
Matrix: Water
Analysis Batch: 732089

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1160	1160		ug/L		100.2	81.6 - 117.5
Nitrate Nitrite as N	1160	1160		ug/L		100.2	81.6 - 117.5

Lab Sample ID: LCSSRM 460-732089/16
Matrix: Water
Analysis Batch: 732089

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	720	604		ug/L		83.9	77.8 - 120.8

Lab Sample ID: 460-220554-N-15 MS
Matrix: Water
Analysis Batch: 732089

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	30	J	500	500		ug/L		94	85 - 115
Nitrate Nitrite as N	30	J	1000	1050		ug/L		102	85 - 115
Nitrite as N	ND		500	550		ug/L		110	79 - 121

Lab Sample ID: 460-220554-N-15 MSD
Matrix: Water
Analysis Batch: 732089

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	30	J	500	506		ug/L		95	85 - 115	1	18
Nitrate Nitrite as N	30	J	1000	1050		ug/L		102	85 - 115	0	10
Nitrite as N	ND		500	544		ug/L		109	79 - 121	1	10

Method: 410.4 - COD

Lab Sample ID: MB 460-734246/3
Matrix: Water
Analysis Batch: 734246

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10000	3300	ug/L			10/23/20 14:23	1

Lab Sample ID: LCSSRM 460-734246/4
Matrix: Water
Analysis Batch: 734246

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			117000	113000		ug/L		96.7	77.2 - 118.8		

Lab Sample ID: 460-220967-A-2 MS
Matrix: Water
Analysis Batch: 734246

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	34000		50000	80300		ug/L		93	90 - 110		

Lab Sample ID: 460-220967-A-2 MSD
Matrix: Water
Analysis Batch: 734246

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	34000		50000	80000		ug/L		92	90 - 110	0	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 460-731959/25
Matrix: Water
Analysis Batch: 731959

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5000	5000	ug/L			10/15/20 03:59	1

Lab Sample ID: LCSSRM 460-731959/26
Matrix: Water
Analysis Batch: 731959

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Alkalinity			66800	66000		ug/L		98.7	85.0 - 115.0		

Lab Sample ID: 460-220519-C-1 DU
Matrix: Water
Analysis Batch: 731959

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	12000			12200		ug/L				5	10

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 460-733225/1
Matrix: Water
Analysis Batch: 733225

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		5000	5000	ug/L			10/20/20 15:05	1

Lab Sample ID: LCSSRM 460-733225/2
Matrix: Water
Analysis Batch: 733225

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	370000	365000		ug/L		98.6	85.1 - 115.1

Lab Sample ID: 460-220542-I-1 DU
Matrix: Water
Analysis Batch: 733225

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hardness as calcium carbonate	1500000		1500000		ug/L		0.7	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 460-732502/34
Matrix: Water
Analysis Batch: 732502

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			10/17/20 11:30	1

Lab Sample ID: LCSSRM 460-732502/35
Matrix: Water
Analysis Batch: 732502

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	691	714		umhos/cm		103.4	90.0 - 110.1

Lab Sample ID: 460-220101-H-1 DU
Matrix: Water
Analysis Batch: 732502

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	960		965		umhos/cm		0.1	2

Method: SM 4500 P E - Phosphorus

Lab Sample ID: 460-220548-V-1-B MS
Matrix: Water
Analysis Batch: 732588

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 732587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus as P	260		200	443		ug/L		92	90 - 110

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: 460-220548-V-1-C MSD
Matrix: Water
Analysis Batch: 732588

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 732587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus as P	260		200	446		ug/L		93	90 - 110	1	10

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 460-731894/24
Matrix: Water
Analysis Batch: 731894

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		1000	1000	ug/L			10/15/20 12:45	1

Lab Sample ID: LCS 460-731894/25
Matrix: Water
Analysis Batch: 731894

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Biochemical Oxygen Demand			129000	135000		ug/L		105	84.6 - 115.4		

Lab Sample ID: 460-220554-AF-15 DU
Matrix: Water
Analysis Batch: 731894

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	1800			1800		ug/L				0	30

GC VOA

Analysis Batch: 554924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	RSK-175	
460-220549-1 - DL	RCS-INFLUENT	Total/NA	Water	RSK-175	
MB 480-554924/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-554924/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-554924/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

GC Semi VOA

Prep Batch: 731940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	608	
MB 460-731940/1-A	Method Blank	Total/NA	Water	608	
LCS 460-731940/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 460-731940/6-A	Lab Control Sample	Total/NA	Water	608	
LCSD 460-731940/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 460-731940/7-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 732814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-731940/1-A	Method Blank	Total/NA	Water	608.3	731940
LCS 460-731940/2-A	Lab Control Sample	Total/NA	Water	608.3	731940
LCS 460-731940/6-A	Lab Control Sample	Total/NA	Water	608.3	731940
LCSD 460-731940/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	731940
LCSD 460-731940/7-A	Lab Control Sample Dup	Total/NA	Water	608.3	731940

Analysis Batch: 732876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	608.3	731940

General Chemistry

Prep Batch: 555644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	351.2	
MB 480-555644/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-555644/2-A	Lab Control Sample	Total/NA	Water	351.2	
460-220548-O-1-B MS	Matrix Spike	Total/NA	Water	351.2	
460-220549-1 DU	RCS-INFLUENT	Total/NA	Water	351.2	

Analysis Batch: 555780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	351.2	555644
MB 480-555644/1-A	Method Blank	Total/NA	Water	351.2	555644
LCS 480-555644/2-A	Lab Control Sample	Total/NA	Water	351.2	555644
460-220548-O-1-B MS	Matrix Spike	Total/NA	Water	351.2	555644
460-220549-1 DU	RCS-INFLUENT	Total/NA	Water	351.2	555644

Analysis Batch: 731894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	SM 5210B	
USB 460-731894/24	Method Blank	Total/NA	Water	SM 5210B	
LCS 460-731894/25	Lab Control Sample	Total/NA	Water	SM 5210B	

General Chemistry (Continued)

Analysis Batch: 731894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220554-AF-15 DU	Duplicate	Total/NA	Water	SM 5210B	

Analysis Batch: 731959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	SM 2320B	
MB 460-731959/25	Method Blank	Total/NA	Water	SM 2320B	
LCSSRM 460-731959/26	Lab Control Sample	Total/NA	Water	SM 2320B	
460-220519-C-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 732089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	353.2	
MB 460-732089/14	Method Blank	Total/NA	Water	353.2	
LCSSRM 460-732089/15	Lab Control Sample	Total/NA	Water	353.2	
LCSSRM 460-732089/16	Lab Control Sample	Total/NA	Water	353.2	
MRL 460-732089/11	Lab Control Sample	Total/NA	Water	353.2	
460-220554-N-15 MS	Matrix Spike	Total/NA	Water	353.2	
460-220554-N-15 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	

Analysis Batch: 732502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	SM 2510B	
MB 460-732502/34	Method Blank	Total/NA	Water	SM 2510B	
LCSSRM 460-732502/35	Lab Control Sample	Total/NA	Water	SM 2510B	
460-220101-H-1 DU	Duplicate	Total/NA	Water	SM 2510B	

Prep Batch: 732587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	SM 4500 P B	
460-220548-V-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 P B	
460-220548-V-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 P B	

Analysis Batch: 732588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	SM 4500 P E	732587
460-220548-V-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 P E	732587
460-220548-V-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 P E	732587

Analysis Batch: 732766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	203	

Analysis Batch: 733225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	SM 2340C	
MB 460-733225/1	Method Blank	Total/NA	Water	SM 2340C	
LCSSRM 460-733225/2	Lab Control Sample	Total/NA	Water	SM 2340C	
460-220542-I-1 DU	Duplicate	Total/NA	Water	SM 2340C	

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220549-2
Project/Site: EMGPRP-31097

General Chemistry

Analysis Batch: 734246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-220549-1	RCS-INFLUENT	Total/NA	Water	410.4	
MB 460-734246/3	Method Blank	Total/NA	Water	410.4	
LCSSRM 460-734246/4	Lab Control Sample	Total/NA	Water	410.4	
460-220967-A-2 MS	Matrix Spike	Total/NA	Water	410.4	
460-220967-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-2

Client Sample ID: RCS-INFLUENT

Date Collected: 10/14/20 08:55
Date Received: 10/14/20 19:00

Lab Sample ID: 460-220549-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	554924	10/21/20 09:59	MAN	TAL BUF
Total/NA	Analysis	RSK-175	DL	22	554924	10/21/20 12:49	MAN	TAL BUF
Total/NA	Prep	608			731940	10/15/20 14:41	ATF	TAL EDI
Total/NA	Analysis	608.3		1	732876	10/19/20 11:42	SAK	TAL EDI
Total/NA	Analysis	203		1	732766	10/22/20 11:18	TJW	TAL EDI
Total/NA	Prep	351.2			555644	10/25/20 10:41	KEB	TAL BUF
Total/NA	Analysis	351.2		1	555780	10/26/20 09:15	CLT	TAL BUF
Total/NA	Analysis	353.2		1	732089	10/15/20 20:20	VBG	TAL EDI
Total/NA	Analysis	410.4		1	734246	10/23/20 14:23	HTV	TAL EDI
Total/NA	Analysis	SM 2320B		1	731959	10/15/20 06:28	AAA	TAL EDI
Total/NA	Analysis	SM 2340C		1	733225	10/20/20 15:05	RAK	TAL EDI
Total/NA	Analysis	SM 2510B		1	732502	10/17/20 11:30	HTV	TAL EDI
Total/NA	Prep	SM 4500 P B			732587	10/17/20 12:00	HTV	TAL EDI
Total/NA	Analysis	SM 4500 P E		1	732588	10/17/20 14:30	HTV	TAL EDI
Total/NA	Analysis	SM 5210B		1	731894	10/15/20 14:50	PLS	TAL EDI

Laboratory References:

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

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 460-220549-2
Project/Site: EMGPRP-31097

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

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
203		Water	Langelier Index
608.3	608	Water	alpha-Chlordane
608.3	608	Water	Endrin ketone
608.3	608	Water	gamma-Chlordane

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-2

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
608.3	Organochlorine Pesticides/PCBs in Water	40CFR136A	TAL EDI
203	Langelier Index	SM15	TAL EDI
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL EDI
410.4	COD	MCAWW	TAL EDI
SM 2320B	Alkalinity	SM	TAL EDI
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL EDI
SM 2510B	Conductivity, Specific Conductance	SM	TAL EDI
SM 4500 P E	Phosphorus	SM	TAL EDI
SM 5210B	BOD, 5-Day	SM	TAL EDI
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL EDI
SM 4500 P B	Phosphorous, Total and Ortho	SM	TAL EDI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SM = "Standard Methods For The Examination Of Water And Wastewater"

SM15 = "Standard Methods For The Examination Of Water And Wastewater", 15th Edition, 1981.

Laboratory References:

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

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 460-220549-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-220549-1	RCS-INFLUENT	Water	10/14/20 08:55	10/14/20 19:00	

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: DK	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-130510-84480.1
Client Contact: Matthew Mueller	Phone:	E-Mail: Melissa.Haas@Eurofinset.com		Page: Page 1 of 1
Company: Roux Environmental Eng & Geology DPC				Job #: 220549
Address: 209 Shafter St	Due Date Requested:			
City: Islandia	TAT Requested (days): 5 Day (See comments)			
State, Zip: NY, 11749				
Phone: 716-472-2725(Tel)	PO #: 0172.0030Y060			
Email: mmueller@rouxinc.com	WO #:			
Project Name: EMGPRP-31097	Project #: 46032869			
Analysis Group: Annual Performance Sampling	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Volatile Organic Compounds Method:624.1_PREC	Volatile Organic Compounds (MEK, MTBE, Acetone) Method: 8260C	GRO Method: 8015D_GRO	ORO/DRO Method: 8015D-DRO	Semivolatile Organic Compounds Method: 625.1_PREC	Metals (TAL) Method: 200.8	Mercury Method: 245.1	Langalier Index Method: 203	Anions, Ion Chromatography Method: 300_ORGFM_28D	Nitrogen, Total Kjeldahl Method: 351.2	Nitrogen, Nitrate-Nitrite Method: 353.2	Phosphorus Method: 4500_P_E	Phenolics, Total Recoverable Method: 420.1	HEM and SGT-HEM Method: 1664A_NP	pH Method: SM4500_H+	COD Method: 410.4	Turbidity, Nephelometric Method: 180.1	Alkalinity Method: 2320B	Hardness, Total (mg/l as CaCO3) Method: 2340C	Conductivity, Specific Conductance Method: 2510B	Solids, Total Dissolved (TDS) Method: 2540C	Solids, Total Suspended (TSS) Method: 2540D	Solids, Settleable Method: SM2540F	BOD, 5-Day Method: 5210B	Dissolved Gases (GC) (Methane, Ethane, Ethene) Method: RSK_175	Organochlorine Pesticides in Water Method: 608.3_PREC	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	N	A	N	N	D	D	N	N	S	N	S	S	A	N	S	N	N	N	N	N	N	N	N	A	N		
RCS-INFLUENT	10/14/20	8:55	G	W	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	33	Methods 203, 351.2, 353.2, 4500_P_E, 410.3, 2320B, 2340C, 2510B, 5210B, RSK_175, 608.3_PREC to be reported separately (10 Day TAT) Field Temp: 17.70°C Field pH: 7.42
QAQC_TB	10/9/20			W			X	X																							X		4	Trip Blank 2

460-220549 Chain of Custody

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

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

Deliverable Requested: I, II, III, IV, Other (specify): Level 2, EDD (EQuIS and Excel)

Special Instructions/QC Requirements: **NOTE SHORT HOLDS**

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

	Date/Time	Company		Date/Time	Company
Relinquished by: Natalia B.	10/14/2020 16:00	ROUX	Received by: Samuel	10/14/20 16:00	NA
Relinquished by: Samuel	10/14/20 19:00	NA	Received by: Joseph	10/14/20 1900	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 002256

Cooler Temperature(s) °C and Other Remarks: IR11 0.9°C

Ver: 01/16/2019

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 220549

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	℃	℃	Cooler #4:	℃	℃	Cooler #7:	℃	℃
Cooler #2:	℃	℃	Cooler #5:	℃	℃	Cooler #8:	℃	℃
Cooler #3:	℃	℃	Cooler #6:	℃	℃	Cooler #9:	℃	℃

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1		<2		<2	<2			<2		<2			<2		

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: K.A. Date: 10/14/20

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-59743.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Melissa.Haas@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-220549-2
Address: 10 Hazelwood Drive, ,	Due Date Requested: 10/26/2020			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: EMGPRP-31097	Project #: 46032869			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	351.2/351.2_Prep Nitrogen, Total Kjeldahl	RSK_175/ Methane, Ethane, Ethene	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
RCS-INFLUENT (460-220549-1)	10/14/20	08:55 Eastern		Water			X	X	4	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/15/20 1900	ETAEL	[signature]	10/16/20 1044	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8 #1 ICE

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-220549-2

Login Number: 220549
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 460-220549-2

Login Number: 220549
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo
List Creation: 10/19/20 03:43 PM

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	2.8 ir gun #1 ice
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.	True	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-63034-1
Client Project/Site: EMGPRP-31097
Revision: 1

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Attn: Matthew Mueller

Authorized for release by:
11/29/2021 5:25:57 PM

Megan Moeller, Client Services Group Leader
(717)556-7261
Megan.Moeller@eurofinset.com

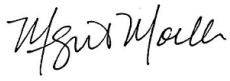
Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



Megan Moeller
Client Services Group Leader
11/29/2021 5:25:57 PM

Table of Contents

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63034-1
Project/Site: EMGPRP-31097

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.
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
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC 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.

Metals

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-63034-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-63034-1

REVISION
The report being provided is a revision of the original report sent on 11/18/2021. The report (revision 1) is being revised due to iclude all analyses in the final report.

Receipt
The samples were received on 11/11/2021 9:39 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

Receipt Exceptions
Method SW-846 8260C is not a promulgated method for the analysis of regulatory samples (NPDES) in GW under 40 CFR.
ORS-EFFLUENT (410-63034-1)

GC/MS VOA
Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following sample was received preserved with hydrochloric acid: ORS-EFFLUENT (410-63034-1). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

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

GC/MS Semi VOA
Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 410-197322 recovered above the upper control limit for 4,6-Dinitro-2-methylphenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 625.1_PREC: The laboratory control sample (LCS) for preparation batch 410-196016 and analytical batch 410-197322 recovered outside control limits for the following analytes: N-Nitrosodiethylamine. The associated sample(s) was re-prepared and/or re-analyzed within holding time with similar results. The first set of data has been reported.

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

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

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

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

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

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

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

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63034-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-EFFLUENT
Lab Sample ID: 410-63034-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.97	J	1.0	0.30	ug/L	1		624.1	Total/NA
1,2-Dichloroethene (total)	0.78	J	1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	0.78	J	1.0	0.20	ug/L	1		624.1	Total/NA
t-Amyl methyl ether	0.21	J	1.0	0.20	ug/L	1		624.1	Total/NA
t-Butyl alcohol	10	J	20	6.0	ug/L	1		624.1	Total/NA
Tetrachloroethene	0.47	J	1.0	0.30	ug/L	1		624.1	Total/NA
Trichloroethene	0.45	J	1.0	0.20	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	6.1		1.0	0.20	ug/L	1		8260C	Total/NA
Acetone	0.81	J	20	0.70	ug/L	1		8260C	Total/NA
Methane (1C)	6.1		5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	140		50	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	580		200	100	mg/L	500		EPA 300.0 R2.1	Total/NA
Arsenic	0.81	J	2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	210		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	130000		500	370	ug/L	5		200.8 Rev 5.4	Total Recoverable
Cobalt	1.6		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	0.40	J	1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	350		50	23	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	48000		50	10	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	1900		10	3.2	ug/L	5		200.8 Rev 5.4	Total Recoverable
Nickel	4.0		1.0	0.60	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	6100		200	110	ug/L	1		200.8 Rev 5.4	Total Recoverable
Selenium	1.7		1.0	0.28	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	360000		1000	250	ug/L	5		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	1.9	J	5.2	1.5	mg/L	1		1664A	Total/NA
Turbidity	2.0		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	380		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	580		25	7.5	mg/L	2.5		2340C-2011	Total/NA
Specific Conductance	2600	B	5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	1500		240	96	mg/L	1		2540C-2011	Total/NA
Total Suspended Solids	1.5	J	3.0	1.0	mg/L	1		2540D-2011	Total/NA
Total Kjeldahl Nitrogen	0.92	J F1	1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	1.0		0.10	0.040	mg/L	1		353.2	Total/NA
pH	8.1	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	21.8	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Langelier Index	1.2				LangSU	1		SM 2330B	Total/NA

Client Sample ID: QAQC_TB
Lab Sample ID: 410-63034-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Client Sample ID: ORS-EFFLUENT

Date Collected: 11/11/21 09:30
Date Received: 11/11/21 21:39

Lab Sample ID: 410-63034-1

Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/12/21 20:15	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/12/21 20:15	1
1,2-Dichloroethane	**0.97**	**J**	1.0	0.30	ug/L			11/12/21 20:15	1
1,2-Dichloroethene (total)	**0.78**	**J**	1.0	0.20	ug/L			11/12/21 20:15	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
1,4-Dioxane	ND		50	15	ug/L			11/12/21 20:15	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/12/21 20:15	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/12/21 20:15	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			11/12/21 20:15	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/12/21 20:15	1
2-Hexanone	ND		2.0	0.50	ug/L			11/12/21 20:15	1
2-Propanol	ND		20	8.0	ug/L			11/12/21 20:15	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/12/21 20:15	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/12/21 20:15	1
Acetonitrile	ND		50	14	ug/L			11/12/21 20:15	1
Benzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/12/21 20:15	1
Bromobenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Bromoform	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Bromomethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Butyl acetate	ND		5.0	0.60	ug/L			11/12/21 20:15	1
Carbon disulfide	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Chloroethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Chloroform	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Chloromethane	ND		1.0	0.30	ug/L			11/12/21 20:15	1
cis-1,2-Dichloroethene	**0.78**	**J**	1.0	0.20	ug/L			11/12/21 20:15	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Cyclohexane	ND		1.0	0.30	ug/L			11/12/21 20:15	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Dibromomethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Client Sample ID: ORS-EFFLUENT

Date Collected: 11/11/21 09:30
Date Received: 11/11/21 21:39

Lab Sample ID: 410-63034-1

Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			11/12/21 20:15	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/12/21 20:15	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Freon 113	ND		1.0	0.30	ug/L			11/12/21 20:15	1
Freon 123a	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Isobutyl alcohol	ND		50	11	ug/L			11/12/21 20:15	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/12/21 20:15	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/12/21 20:15	1
m&p-Xylene	ND		1.0	0.30	ug/L			11/12/21 20:15	1
Methacrylonitrile	ND		10	2.0	ug/L			11/12/21 20:15	1
Methyl iodide	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/12/21 20:15	1
Naphthalene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
n-Heptane	ND		1.0	0.30	ug/L			11/12/21 20:15	1
n-Hexane	ND		1.0	0.20	ug/L			11/12/21 20:15	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/12/21 20:15	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
o-Xylene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Propionitrile	ND		20	4.0	ug/L			11/12/21 20:15	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Styrene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
t-Amyl methyl ether	**0.21**	**J**	1.0	0.20	ug/L			11/12/21 20:15	1
t-Butyl alcohol	**10**	**J**	20	6.0	ug/L			11/12/21 20:15	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Tetrachloroethene	**0.47**	**J**	1.0	0.30	ug/L			11/12/21 20:15	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/12/21 20:15	1
Toluene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/12/21 20:15	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/12/21 20:15	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/12/21 20:15	1
Trichloroethene	**0.45**	**J**	1.0	0.20	ug/L			11/12/21 20:15	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/12/21 20:15	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/12/21 20:15	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/12/21 20:15	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/12/21 20:15	1
Acrolein	ND		10	3.0	ug/L			11/12/21 20:15	1
Acrylonitrile	ND		1.0	0.30	ug/L			11/12/21 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*11/12/21 20:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*11/12/21 20:15*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*11/12/21 20:15*	*1*

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Lab Sample ID: 410-63034-1
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*60 - 140*		*11/12/21 20:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**6.1**		1.0	0.20	ug/L			11/15/21 13:08	1
Acetone	**0.81**	**J**	20	0.70	ug/L			11/15/21 13:08	1
2-Butanone	ND		10	0.50	ug/L			11/15/21 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*11/15/21 13:08*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*11/15/21 13:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*11/15/21 13:08*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/15/21 13:08*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
1,2,4,5-Tetrachlorobenzene	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
1,2-Dichlorobenzene	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
1,2-Diphenylhydrazine	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
1,3-Dichlorobenzene	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
1,4-Dichlorobenzene	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
1,4-Dioxane	ND		5.2	2.1	ug/L		11/17/21 18:08	11/22/21 02:48	1
1-Methylnaphthalene	ND		5.2	0.36	ug/L		11/17/21 18:08	11/22/21 02:48	1
1-Methylphenanthrene	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2,2'-oxybis[1-chloropropane]	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2,3,4,6-Tetrachlorophenol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2,3-Dichloroaniline	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2,4,5-Trichlorophenol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2,4,6-Trichlorophenol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2,4-Dichlorophenol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2,4-Dinitrophenol	ND		10	2.1	ug/L		11/17/21 18:08	11/22/21 02:48	1
2,4-Dinitrotoluene	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2,6-Dichlorophenol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2,6-Dinitrotoluene	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2-Chloronaphthalene	ND		5.2	1.0	ug/L		11/17/21 18:08	11/22/21 02:48	1
2-Chlorophenol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2-Methylnaphthalene	ND		5.2	0.21	ug/L		11/17/21 18:08	11/22/21 02:48	1
2-Methylphenol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2-Nitroaniline	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
2-Nitrophenol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
3,3'-Dichlorobenzidine	ND		5.2	0.83	ug/L		11/17/21 18:08	11/22/21 02:48	1
3-Nitroaniline	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
4,6-Dinitro-2-methylphenol	ND		10	2.1	ug/L		11/17/21 18:08	11/22/21 02:48	1
4-Bromophenyl-phenylether	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
4-Chloro-3-methylphenol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
4-Chloroaniline	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
4-Chlorophenyl-phenylether	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1

Client Sample ID: ORS-EFFLUENT
Date Collected: 11/11/21 09:30
Date Received: 11/11/21 21:39

Lab Sample ID: 410-63034-1
Matrix: Groundwater

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
4-Nitroaniline	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
4-Nitrophenol	ND		5.2	0.93	ug/L		11/17/21 18:08	11/22/21 02:48	1
Acenaphthene	ND		5.2	0.26	ug/L		11/17/21 18:08	11/22/21 02:48	1
Acenaphthylene	ND		5.2	0.21	ug/L		11/17/21 18:08	11/22/21 02:48	1
Acetophenone	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Aniline	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Anthracene	ND		5.2	0.26	ug/L		11/17/21 18:08	11/22/21 02:48	1
a-Terpineol	ND		5.2	0.62	ug/L		11/17/21 18:08	11/22/21 02:48	1
Benzidine	ND		62	6.2	ug/L		11/17/21 18:08	11/22/21 02:48	1
Benzo[a]anthracene	ND		5.2	0.26	ug/L		11/17/21 18:08	11/22/21 02:48	1
Benzo[a]pyrene	ND		5.2	0.26	ug/L		11/17/21 18:08	11/22/21 02:48	1
Benzo[b]fluoranthene	ND		5.2	0.26	ug/L		11/17/21 18:08	11/22/21 02:48	1
Benzo[g,h,i]perylene	ND		5.2	0.31	ug/L		11/17/21 18:08	11/22/21 02:48	1
Benzo[k]fluoranthene	ND		5.2	0.21	ug/L		11/17/21 18:08	11/22/21 02:48	1
Benzoic acid	ND		31	4.1	ug/L		11/17/21 18:08	11/22/21 02:48	1
Benzyl alcohol	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Bis(2-chloroethoxy)methane	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Bis(2-chloroethyl)ether	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Bis(2-ethylhexyl) phthalate	ND		5.2	1.0	ug/L		11/17/21 18:08	11/22/21 02:48	1
Butylbenzylphthalate	ND		5.2	1.0	ug/L		11/17/21 18:08	11/22/21 02:48	1
Carbazole	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Chrysene	ND		5.2	0.21	ug/L		11/17/21 18:08	11/22/21 02:48	1
Dibenz(a,h)anthracene	ND		5.2	0.31	ug/L		11/17/21 18:08	11/22/21 02:48	1
Dibenzofuran	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Diethylphthalate	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Dimethylphthalate	ND	*1	5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Di-n-butyl phthalate	ND		5.2	1.0	ug/L		11/17/21 18:08	11/22/21 02:48	1
Di-n-octyl phthalate	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Diphenyl ether	ND		5.2	0.78	ug/L		11/17/21 18:08	11/22/21 02:48	1
Fluoranthene	ND		5.2	0.21	ug/L		11/17/21 18:08	11/22/21 02:48	1
Fluorene	ND		5.2	0.21	ug/L		11/17/21 18:08	11/22/21 02:48	1
Hexachlorobenzene	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Hexachlorobutadiene	ND		2.1	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Hexachlorocyclopentadiene	ND		16	3.1	ug/L		11/17/21 18:08	11/22/21 02:48	1
Hexachloroethane	ND		2.1	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.31	ug/L		11/17/21 18:08	11/22/21 02:48	1
Isophorone	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Naphthalene	ND		2.1	0.31	ug/L		11/17/21 18:08	11/22/21 02:48	1
n-Decane	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
n-Docosane	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
n-Eicosane	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
n-Hexadecane	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Nitrobenzene	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
N-Nitrosodiethylamine	ND	*-	5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
N-Nitrosodimethylamine	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
N-Nitrosodi-n-butylamine	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
N-Nitrosodi-n-propylamine	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
N-Nitrosodiphenylamine	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Client Sample ID: ORS-EFFLUENT

Date Collected: 11/11/21 09:30
Date Received: 11/11/21 21:39

Lab Sample ID: 410-63034-1

Matrix: Groundwater

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
n-Octadecane	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
n-Tetradecane	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
o-Toluidine	ND	*+	5.2	1.0	ug/L		11/17/21 18:08	11/22/21 02:48	1
Pentachlorobenzene	ND		5.2	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Pentachlorophenol	ND		5.2	0.83	ug/L		11/17/21 18:08	11/22/21 02:48	1
Phenanthrene	ND		5.2	0.21	ug/L		11/17/21 18:08	11/22/21 02:48	1
Phenol	ND		1.0	0.52	ug/L		11/17/21 18:08	11/22/21 02:48	1
Pyrene	ND		5.2	0.26	ug/L		11/17/21 18:08	11/22/21 02:48	1
Pyridine	ND	*+	5.2	0.83	ug/L		11/17/21 18:08	11/22/21 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*5*	*S1-*	*23 - 140*	*11/17/21 18:08*	*11/22/21 02:48*	*1*
2-Fluorobiphenyl (Surr)	*85*		*36 - 101*	*11/17/21 18:08*	*11/22/21 02:48*	*1*
2-Fluorophenol (Surr)	*1*	*S1-*	*10 - 77*	*11/17/21 18:08*	*11/22/21 02:48*	*1*
Nitrobenzene-d5 (Surr)	*88*		*49 - 106*	*11/17/21 18:08*	*11/22/21 02:48*	*1*
Phenol-d5 (Surr)	*7*	*S1-*	*10 - 59*	*11/17/21 18:08*	*11/22/21 02:48*	*1*
p-Terphenyl-d14 (Surr)	*102*		*26 - 119*	*11/17/21 18:08*	*11/22/21 02:48*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		11/15/21 07:00	11/15/21 11:07	1
Ethene (1C)	ND		5.0	1.0	ug/L		11/15/21 07:00	11/15/21 11:07	1
Methane (1C)	**6.1**		5.0	3.0	ug/L		11/15/21 07:00	11/15/21 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*88*		*28 - 130*	*11/15/21 07:00*	*11/15/21 11:07*	*1*

Method: 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	ND		0.010	0.0052	ug/L		11/16/21 09:35	11/17/21 07:35	1
alpha-BHC (1C)	ND		0.031	0.012	ug/L		11/16/21 09:35	11/17/21 07:35	1
beta-BHC (1C)	ND		0.10	0.047	ug/L		11/16/21 09:35	11/17/21 07:35	1
alpha-Chlordane (1C)	ND		0.010	0.0062	ug/L		11/16/21 09:35	11/17/21 07:35	1
delta-BHC (1C)	ND		0.031	0.011	ug/L		11/16/21 09:35	11/17/21 07:35	1
Dieldrin (1C)	ND		0.021	0.0082	ug/L		11/16/21 09:35	11/17/21 07:35	1
Endosulfan I (1C)	ND		0.010	0.0031	ug/L		11/16/21 09:35	11/17/21 07:35	1
Endosulfan II (1C)	ND		0.021	0.010	ug/L		11/16/21 09:35	11/17/21 07:35	1
Endosulfan sulfate (1C)	ND		0.021	0.010	ug/L		11/16/21 09:35	11/17/21 07:35	1
Endrin (1C)	ND		0.10	0.0093	ug/L		11/16/21 09:35	11/17/21 07:35	1
Endrin aldehyde (1C)	ND		0.021	0.0094	ug/L		11/16/21 09:35	11/17/21 07:35	1
gamma-BHC (Lindane) (1C)	ND		0.010	0.0054	ug/L		11/16/21 09:35	11/17/21 07:35	1
Heptachlor (1C)	ND		0.010	0.0082	ug/L		11/16/21 09:35	11/17/21 07:35	1
Heptachlor epoxide (1C)	ND		0.10	0.0052	ug/L		11/16/21 09:35	11/17/21 07:35	1
4,4'-DDD (1C)	ND		0.021	0.0093	ug/L		11/16/21 09:35	11/17/21 07:35	1
4,4'-DDE (1C)	ND		0.041	0.021	ug/L		11/16/21 09:35	11/17/21 07:35	1
4,4'-DDT (1C)	ND		0.021	0.010	ug/L		11/16/21 09:35	11/17/21 07:35	1
Toxaphene (1C)	ND		1.0	0.37	ug/L		11/16/21 09:35	11/17/21 07:35	1
Chlordane (n.o.s.) (1C)	ND		0.52	0.24	ug/L		11/16/21 09:35	11/17/21 07:35	1

Client Sample ID: ORS-EFFLUENT
Date Collected: 11/11/21 09:30
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Lab Sample ID: 410-63034-1
Matrix: Groundwater

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*58*		*32 - 149*	*11/16/21 09:35*	*11/17/21 07:35*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*51*		*32 - 149*	*11/16/21 09:35*	*11/17/21 07:35*	*1*
Tetrachloro-m-xylene (1C)	*55*		*29 - 129*	*11/16/21 09:35*	*11/17/21 07:35*	*1*
Tetrachloro-m-xylene (2C)	*48*		*29 - 129*	*11/16/21 09:35*	*11/17/21 07:35*	*1*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.52	0.099	ug/L		11/16/21 09:37	11/17/21 09:24	1
PCB-1221 (1C)	ND		0.52	0.22	ug/L		11/16/21 09:37	11/17/21 09:24	1
PCB-1232 (1C)	ND		0.52	0.13	ug/L		11/16/21 09:37	11/17/21 09:24	1
PCB-1242 (1C)	ND		0.52	0.21	ug/L		11/16/21 09:37	11/17/21 09:24	1
PCB-1248 (1C)	ND		0.52	0.22	ug/L		11/16/21 09:37	11/17/21 09:24	1
PCB-1254 (1C)	ND		0.52	0.16	ug/L		11/16/21 09:37	11/17/21 09:24	1
PCB-1260 (1C)	ND		0.52	0.081	ug/L		11/16/21 09:37	11/17/21 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*78*		*10 - 127*	*11/16/21 09:37*	*11/17/21 09:24*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*76*		*10 - 127*	*11/16/21 09:37*	*11/17/21 09:24*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*79*		*18 - 115*	*11/16/21 09:37*	*11/17/21 09:24*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*72*		*18 - 115*	*11/16/21 09:37*	*11/17/21 09:24*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**140**		50	15	mg/L			11/17/21 23:21	50
Chloride	**580**		200	100	mg/L			11/17/21 23:32	500

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		11/15/21 04:06	11/16/21 16:37	1
Aluminum	ND		25	20	ug/L		11/15/21 04:06	11/16/21 16:37	1
Arsenic	**0.81**	**J**	2.0	0.68	ug/L		11/15/21 04:06	11/16/21 16:37	1
Barium	**210**		2.0	0.75	ug/L		11/15/21 04:06	11/16/21 16:37	1
Beryllium	ND		0.50	0.12	ug/L		11/15/21 04:06	11/16/21 16:37	1
Cadmium	ND		0.50	0.15	ug/L		11/15/21 04:06	11/16/21 16:37	1
Calcium	**130000**		500	370	ug/L		11/15/21 04:06	11/16/21 16:49	5
Chromium	ND		2.0	0.33	ug/L		11/15/21 04:06	11/16/21 16:37	1
Cobalt	**1.6**		0.50	0.16	ug/L		11/15/21 04:06	11/16/21 16:37	1
Copper	**0.40**	**J**	1.0	0.36	ug/L		11/15/21 04:06	11/16/21 16:37	1
Iron	**350**		50	23	ug/L		11/15/21 04:06	11/16/21 16:37	1
Lead	ND		0.50	0.071	ug/L		11/15/21 04:06	11/16/21 16:37	1
Magnesium	**48000**		50	10	ug/L		11/15/21 04:06	11/16/21 16:37	1
Manganese	**1900**		10	3.2	ug/L		11/15/21 04:06	11/16/21 16:49	5
Nickel	**4.0**		1.0	0.60	ug/L		11/15/21 04:06	11/16/21 16:37	1
Potassium	**6100**		200	110	ug/L		11/15/21 04:06	11/16/21 16:37	1
Selenium	**1.7**		1.0	0.28	ug/L		11/15/21 04:06	11/16/21 16:37	1
Silver	ND		0.50	0.17	ug/L		11/15/21 04:06	11/16/21 16:37	1
Sodium	**360000**		1000	250	ug/L		11/15/21 04:06	11/16/21 16:49	5
Thallium	ND		0.50	0.13	ug/L		11/15/21 04:06	11/16/21 16:37	1
Vanadium	ND		4.0	0.79	ug/L		11/15/21 04:06	11/16/21 16:37	1
Zinc	ND		10	6.2	ug/L		11/15/21 04:06	11/16/21 16:37	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Client Sample ID: ORS-EFFLUENT

Date Collected: 11/11/21 09:30
Date Received: 11/11/21 21:39

Lab Sample ID: 410-63034-1

Matrix: Groundwater

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/15/21 04:53	11/16/21 17:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	1.9	J	5.2	1.5	mg/L			11/16/21 19:37	1
Turbidity	2.0		1.0	1.0	NTU			11/12/21 17:50	1
Total Alkalinity as CaCO3 to pH 4.5	380		8.0	2.6	mg/L			11/16/21 21:27	1
Total Hardness	580		25	7.5	mg/L			11/15/21 23:06	2.5
Specific Conductance	2600	B	5.0	1.7	umhos/cm			11/16/21 21:27	1
Total Dissolved Solids	1500		240	96	mg/L			11/16/21 07:19	1
Total Suspended Solids	1.5	J	3.0	1.0	mg/L			11/15/21 01:35	1
Settleable Solids	ND		0.10	0.10	mL/L			11/12/21 19:25	1
Total Kjeldahl Nitrogen	0.92	J F1	1.0	0.50	mg/L		11/18/21 12:15	11/19/21 09:42	1
Nitrate as N	1.0		0.10	0.040	mg/L			11/17/21 23:32	1
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		11/16/21 17:47	11/19/21 08:05	1
Chemical Oxygen Demand	ND		75	25	mg/L			11/15/21 22:15	1
Phenols, Total	ND		0.20	0.10	mg/L			11/18/21 10:32	10
pH	8.1	HF	0.01	0.01	S.U.			11/16/21 21:27	1
Temperature	21.8	HF	0.01	0.01	Degrees C			11/16/21 21:27	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			11/12/21 14:48	1
Langelier Index	1.2				LangSU			11/12/21 14:31	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Client Sample ID: QAQC_TB

Date Collected: 10/12/21 00:00
Date Received: 11/11/21 21:39

Lab Sample ID: 410-63034-2

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,1,1-Trichloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,1,2,2-Tetrachloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,1,2-Trichloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,1-Dichloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,1-Dichloroethene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,2-Dichloroethane	ND	H H3	1.0	0.30	ug/L			11/12/21 19:53	1
1,1-Dichloropropene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,2-Dichloropropane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,2,3-Trichlorobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Benzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,2,3-Trichloropropane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Bromodichloromethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,2,4-Trichlorobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Bromoform	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,2,4-Trimethylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Bromomethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,2-Dibromo-3-Chloropropane	ND	H H3	1.0	0.50	ug/L			11/12/21 19:53	1
Carbon tetrachloride	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,2-Dibromoethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Chlorobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,2-Dichlorobenzene	ND	H H3	1.0	0.10	ug/L			11/12/21 19:53	1
Chloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Chloroform	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,2-Dichloroethene (total)	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Chloromethane	ND	H H3	1.0	0.30	ug/L			11/12/21 19:53	1
cis-1,2-Dichloroethene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,3,5-Trimethylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
cis-1,3-Dichloropropene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,3-Dichlorobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Dibromochloromethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,3-Dichloropropane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Ethylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
1,4-Dichlorobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Methylene Chloride	ND	H H3	1.0	0.30	ug/L			11/12/21 19:53	1
1,4-Dioxane	ND	H H3	50	15	ug/L			11/12/21 19:53	1
Toluene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
2,2-Dichloropropane	ND	H H3	1.0	0.30	ug/L			11/12/21 19:53	1
Tetrachloroethene	ND	H H3	1.0	0.30	ug/L			11/12/21 19:53	1
trans-1,2-Dichloroethene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
2-Chloro-1,3-butadiene	ND	H H3	1.0	0.50	ug/L			11/12/21 19:53	1
trans-1,3-Dichloropropene	ND	H H3	1.0	0.10	ug/L			11/12/21 19:53	1
2-Chlorotoluene	ND	H H3	1.0	0.50	ug/L			11/12/21 19:53	1
Trichloroethene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
2-Hexanone	ND	H H3	2.0	0.50	ug/L			11/12/21 19:53	1
Trichlorofluoromethane	ND	H H3	1.0	0.30	ug/L			11/12/21 19:53	1
2-Propanol	ND	H H3	20	8.0	ug/L			11/12/21 19:53	1
Vinyl chloride	ND	H H3	1.0	0.30	ug/L			11/12/21 19:53	1
4-Chlorotoluene	ND	H H3	1.0	0.50	ug/L			11/12/21 19:53	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Client Sample ID: QAQC_TB

Date Collected: 10/12/21 00:00
Date Received: 11/11/21 21:39

Lab Sample ID: 410-63034-2

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND	H H3	2.0	0.50	ug/L			11/12/21 19:53	1
Acetonitrile	ND	H H3	50	14	ug/L			11/12/21 19:53	1
Xylenes, Total	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Benzyl chloride	ND	H H3	1.0	0.25	ug/L			11/12/21 19:53	1
Bromobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Butyl acetate	ND	H H3	5.0	0.60	ug/L			11/12/21 19:53	1
Carbon disulfide	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Cyclohexane	ND	H H3	1.0	0.30	ug/L			11/12/21 19:53	1
Dibromomethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Dichlorodifluoromethane	ND	H H3	1.0	0.10	ug/L			11/12/21 19:53	1
Dichlorofluoromethane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Ethyl acetate	ND	H H3	5.0	0.80	ug/L			11/12/21 19:53	1
Ethyl methacrylate	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Ethyl t-butyl ether	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Freon 113	ND	H H3	1.0	0.30	ug/L			11/12/21 19:53	1
Freon 123a	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Hexachlorobutadiene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Isobutyl alcohol	ND	H H3	50	11	ug/L			11/12/21 19:53	1
Isopropyl acetate	ND	H H3	5.0	0.60	ug/L			11/12/21 19:53	1
Isopropylbenzene	ND	H H3	2.0	0.50	ug/L			11/12/21 19:53	1
Methacrylonitrile	ND	H H3	10	2.0	ug/L			11/12/21 19:53	1
Methyl iodide	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Methyl methacrylate	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Naphthalene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Propionitrile	ND	H H3	20	4.0	ug/L			11/12/21 19:53	1
Styrene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
Tetrahydrofuran	ND	H H3	5.0	1.0	ug/L			11/12/21 19:53	1
Vinyl acetate	ND	H H3	5.0	0.70	ug/L			11/12/21 19:53	1
di-Isopropyl ether	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
m&p-Xylene	ND	H H3	1.0	0.30	ug/L			11/12/21 19:53	1
n-Butylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
n-Heptane	ND	H H3	1.0	0.30	ug/L			11/12/21 19:53	1
n-Hexane	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
n-Propyl acetate	ND	H H3	5.0	0.60	ug/L			11/12/21 19:53	1
N-Propylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
o-Xylene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
p-Isopropyltoluene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
sec-Butylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
t-Amyl methyl ether	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
t-Butyl alcohol	ND	H H3	20	6.0	ug/L			11/12/21 19:53	1
tert-Butylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 19:53	1
trans-1,4-Dichloro-2-butene	ND	H H3	10	3.0	ug/L			11/12/21 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*		*11/12/21 19:53*	*1*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*11/12/21 19:53*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*11/12/21 19:53*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*11/12/21 19:53*	*1*

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63034-1
Project/Site: EMGPRP-31097

Client Sample ID: QAQC_TB
Date Collected: 10/12/21 00:00
Date Received: 11/11/21 21:39

Lab Sample ID: 410-63034-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/15/21 11:26	1
Acetone	ND		20	0.70	ug/L			11/15/21 11:26	1
2-Butanone	ND		10	0.50	ug/L			11/15/21 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*11/15/21 11:26*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*11/15/21 11:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*11/15/21 11:26*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/15/21 11:26*	*1*

Action Limit Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63034-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-EFFLUENT
Lab Sample ID: 410-63034-1

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	1.9	J	mg/L	5	5.2	1664A	Total/NA

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-63034-1	ORS-EFFLUENT	103	99	103	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-63034-2	QAQC_TB	101	100	103	100
LCS 410-194089/1003	Lab Control Sample	104	100	101	100
LCS 410-194089/1004	Lab Control Sample	105	101	103	97
MB 410-194089/5	Method Blank	102	99	102	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-63034-1	ORS-EFFLUENT	101	107	100	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-63034-2	QAQC_TB	107	107	100	102
LCS 410-194676/4	Lab Control Sample	102	106	104	104
MB 410-194676/6	Method Blank	107	106	102	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(23-140)	(36-101)	(10-77)	(49-106)	(10-59)	(26-119)
410-63034-1	ORS-EFFLUENT	5 S1-	85	1 S1-	88	7 S1-	102

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(23-140)	(36-101)	(10-77)	(49-106)	(10-59)	(26-119)
LCS 410-196016/2-A	Lab Control Sample	87	89	55	91	36	106
LCS 410-196016/4-A	Lab Control Sample	90	87	57	93	41	104
LCSD 410-196016/3-A	Lab Control Sample Dup	88	81	56	88	37	101
LCSD 410-196016/5-A	Lab Control Sample Dup	81	76	52	75	34	96
MB 410-196016/1-A	Method Blank	55	6 S1-	23	15 S1-	21	68

Surrogate Legend

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

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		Propene1
Lab Sample ID	Client Sample ID	(28-130)
410-63034-1	ORS-EFFLUENT	88

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		Propene1
Lab Sample ID	Client Sample ID	(28-130)
LCS 410-194774/2-A	Lab Control Sample	103
LCSD 410-194774/3-A	Lab Control Sample Dup	102
MB 410-194774/1-A	Method Blank	105

Surrogate Legend

Propene = Propene

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(32-149)	(32-149)	(29-129)	(29-129)
410-63034-1	ORS-EFFLUENT	58	51	55	48

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(32-149)	(29-129)
LCS 410-195128/2-A	Lab Control Sample	39	52
LCSD 410-195128/3-A	Lab Control Sample Dup	49	57
MB 410-195128/1-A	Method Blank	46	52

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-127)	(10-127)	(18-115)	(18-115)
410-63034-1	ORS-EFFLUENT	78	76	79	72

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-127)	(10-127)	(18-115)	(18-115)
LCS 410-195129/2-A	Lab Control Sample	89	84	63	59
LCSD 410-195129/3-A	Lab Control Sample Dup	93	86	66	61
MB 410-195129/1-A	Method Blank	67	66	75	68

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-194089/5
Matrix: Water
Analysis Batch: 194089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/12/21 11:51	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/12/21 11:51	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			11/12/21 11:51	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			11/12/21 11:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Benzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,4-Dioxane	ND		50	15	ug/L			11/12/21 11:51	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Bromoform	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Bromomethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/12/21 11:51	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			11/12/21 11:51	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/12/21 11:51	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Chloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
2-Hexanone	ND		2.0	0.50	ug/L			11/12/21 11:51	1
Chloroform	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Chloromethane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
2-Propanol	ND		20	8.0	ug/L			11/12/21 11:51	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/12/21 11:51	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/12/21 11:51	1
Acetonitrile	ND		50	14	ug/L			11/12/21 11:51	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/12/21 11:51	1
Bromobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Butyl acetate	ND		5.0	0.60	ug/L			11/12/21 11:51	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Carbon disulfide	ND		1.0	0.20	ug/L			11/12/21 11:51	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-194089/5
Matrix: Water
Analysis Batch: 194089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Dibromomethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			11/12/21 11:51	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/12/21 11:51	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Freon 113	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Freon 123a	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Isobutyl alcohol	ND		50	11	ug/L			11/12/21 11:51	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/12/21 11:51	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/12/21 11:51	1
Methacrylonitrile	ND		10	2.0	ug/L			11/12/21 11:51	1
Methyl iodide	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Naphthalene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Propionitrile	ND		20	4.0	ug/L			11/12/21 11:51	1
Styrene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/12/21 11:51	1
m&p-Xylene	ND		1.0	0.30	ug/L			11/12/21 11:51	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
n-Heptane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/12/21 11:51	1
n-Hexane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/12/21 11:51	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/12/21 11:51	1
Toluene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
o-Xylene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/12/21 11:51	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Trichloroethene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
t-Butyl alcohol	ND		20	6.0	ug/L			11/12/21 11:51	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/12/21 11:51	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/12/21 11:51	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Acrolein	ND		10	3.0	ug/L			11/12/21 11:51	1
Acrylonitrile	ND		1.0	0.30	ug/L			11/12/21 11:51	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-194089/5
Matrix: Water
Analysis Batch: 194089

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		60 - 140		11/12/21 11:51	1
4-Bromofluorobenzene (Surr)	99		60 - 140		11/12/21 11:51	1
Dibromofluoromethane (Surr)	102		60 - 140		11/12/21 11:51	1
Toluene-d8 (Surr)	99		60 - 140		11/12/21 11:51	1

Lab Sample ID: LCS 410-194089/1003
Matrix: Water
Analysis Batch: 194089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	21.6		ug/L		108	60 - 140
1,1,1-Trichloroethane	20.0	20.2		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.6		ug/L		108	60 - 140
1,1,2-Trichloroethane	20.0	20.3		ug/L		101	70 - 130
1,1-Dichloroethane	20.0	20.0		ug/L		100	70 - 130
1,1-Dichloroethene	20.0	20.1		ug/L		100	50 - 150
1,1-Dichloropropene	20.0	20.0		ug/L		100	60 - 140
1,2,3-Trichlorobenzene	20.0	18.5		ug/L		93	60 - 140
1,2,3-Trichloropropane	20.0	22.0		ug/L		110	60 - 140
1,2,4-Trichlorobenzene	20.0	17.9		ug/L		90	60 - 140
1,2-Dichloroethane	20.0	19.1		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	20.0	19.8		ug/L		99	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	60 - 140
1,2-Dichloropropane	20.0	20.3		ug/L		102	35 - 165
1,2-Dibromoethane	20.0	20.5		ug/L		102	60 - 140
1,2-Dichlorobenzene	20.0	19.5		ug/L		98	65 - 135
1,2-Dichloroethene (total)	40.0	39.5		ug/L		99	60 - 140
1,3,5-Trimethylbenzene	20.0	19.8		ug/L		99	60 - 140
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	70 - 130
1,3-Dichloropropane	20.0	19.9		ug/L		100	60 - 140
1,4-Dichlorobenzene	20.0	18.9		ug/L		95	65 - 135
Benzene	20.0	20.2		ug/L		101	65 - 135
1,4-Dioxane	500	622		ug/L		124	60 - 140
Bromodichloromethane	20.0	21.5		ug/L		108	65 - 135
2,2-Dichloropropane	20.0	21.2		ug/L		106	60 - 140
Bromoform	20.0	21.6		ug/L		108	70 - 130
Bromomethane	20.0	23.3		ug/L		116	15 - 185
2-Chloro-1,3-butadiene	20.0	22.5		ug/L		112	60 - 140
Carbon tetrachloride	20.0	21.9		ug/L		110	70 - 130
2-Chlorotoluene	20.0	19.3		ug/L		97	60 - 140
Chlorobenzene	20.0	19.5		ug/L		98	65 - 135
Chloroethane	20.0	22.8		ug/L		114	40 - 160
2-Hexanone	250	263		ug/L		105	60 - 140
Chloroform	20.0	20.0		ug/L		100	70 - 135
Chloromethane	20.0	21.2		ug/L		106	10 - 200
2-Propanol	150	202		ug/L		135	60 - 140
cis-1,2-Dichloroethene	20.0	20.3		ug/L		101	60 - 140
cis-1,3-Dichloropropene	20.0	19.3		ug/L		97	25 - 175

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-194089/1003
Matrix: Water
Analysis Batch: 194089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	20.0	20.1		ug/L		100	60 - 140
Dibromochloromethane	20.0	21.5		ug/L		108	70 - 135
4-Methyl-2-pentanone	250	261		ug/L		104	60 - 140
Benzyl chloride	20.0	22.9		ug/L		115	60 - 140
Bromobenzene	20.0	20.1		ug/L		101	60 - 140
Ethylbenzene	20.0	20.0		ug/L		100	60 - 140
Carbon disulfide	20.0	24.2		ug/L		121	60 - 140
Cyclohexane	20.0	18.7		ug/L		93	60 - 140
Dibromomethane	20.0	21.0		ug/L		105	60 - 140
Dichlorodifluoromethane	20.0	23.6		ug/L		118	60 - 140
Dichlorofluoromethane	20.0	22.2		ug/L		111	60 - 140
Ethyl methacrylate	20.0	19.1		ug/L		95	60 - 140
Ethyl t-butyl ether	20.0	20.3		ug/L		101	60 - 140
Freon 113	20.0	22.9		ug/L		115	60 - 140
Freon 123a	20.0	19.7		ug/L		98	60 - 140
Hexachlorobutadiene	20.0	18.2		ug/L		91	60 - 140
Methylene Chloride	20.0	19.8		ug/L		99	60 - 140
Isobutyl alcohol	500	563		ug/L		113	60 - 140
Isopropylbenzene	20.0	19.9		ug/L		100	60 - 140
Methacrylonitrile	150	156		ug/L		104	60 - 140
Methyl iodide	20.0	21.4		ug/L		107	60 - 140
Methyl methacrylate	20.0	21.0		ug/L		105	60 - 140
Naphthalene	20.0	19.5		ug/L		97	60 - 140
Propionitrile	150	177		ug/L		118	60 - 140
Styrene	20.0	19.9		ug/L		100	60 - 140
di-Isopropyl ether	20.0	20.1		ug/L		100	60 - 140
m&p-Xylene	40.0	39.3		ug/L		98	60 - 140
n-Butylbenzene	20.0	19.0		ug/L		95	60 - 140
n-Heptane	20.0	18.6		ug/L		93	60 - 140
Tetrachloroethene	20.0	19.1		ug/L		96	70 - 130
n-Hexane	20.0	20.8		ug/L		104	60 - 140
Tetrahydrofuran	100	107		ug/L		107	60 - 140
Toluene	20.0	19.8		ug/L		99	70 - 130
N-Propylbenzene	20.0	19.6		ug/L		98	60 - 140
o-Xylene	20.0	19.2		ug/L		96	60 - 140
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	70 - 130
p-Isopropyltoluene	20.0	19.1		ug/L		95	60 - 140
trans-1,3-Dichloropropene	20.0	20.8		ug/L		104	50 - 150
sec-Butylbenzene	20.0	19.8		ug/L		99	60 - 140
t-Amyl methyl ether	20.0	19.6		ug/L		98	60 - 140
Trichloroethene	20.0	19.7		ug/L		98	65 - 135
t-Butyl alcohol	200	244		ug/L		122	60 - 140
Trichlorofluoromethane	20.0	21.1		ug/L		105	50 - 150
tert-Butylbenzene	20.0	19.3		ug/L		96	60 - 140
trans-1,4-Dichloro-2-butene	100	111		ug/L		111	60 - 140
Vinyl chloride	20.0	20.6		ug/L		103	10 - 195
Xylenes, Total	60.0	58.5		ug/L		98	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-194089/1003
Matrix: Water
Analysis Batch: 194089

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*
Dibromofluoromethane (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*

Lab Sample ID: LCS 410-194089/1004
Matrix: Water
Analysis Batch: 194089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetonitrile	150	187		ug/L		125	60 - 140
Butyl acetate	20.0	18.7		ug/L		94	60 - 140
Ethyl acetate	20.0	20.6		ug/L		103	60 - 140
Isopropyl acetate	20.0	20.2		ug/L		101	60 - 140
n-Propyl acetate	20.0	19.3		ug/L		96	60 - 140
Vinyl acetate	100	128		ug/L		128	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*97*		*60 - 140*

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

Lab Sample ID: MB 410-194676/6
Matrix: Water
Analysis Batch: 194676

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/15/21 10:05	1
Acetone	ND		20	0.70	ug/L			11/15/21 10:05	1
2-Butanone	ND		10	0.50	ug/L			11/15/21 10:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*11/15/21 10:05*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*11/15/21 10:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/15/21 10:05*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/15/21 10:05*	*1*

Lab Sample ID: LCS 410-194676/4
Matrix: Water
Analysis Batch: 194676

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tertiary butyl ether	20.0	19.3		ug/L		97	69 - 122
Acetone	250	248		ug/L		99	54 - 157
2-Butanone	250	273		ug/L		109	59 - 135

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

Lab Sample ID: LCS 410-194676/4
Matrix: Water
Analysis Batch: 194676

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Toluene-d8 (Surr)	104		80 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-196016/1-A
Matrix: Water
Analysis Batch: 197322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
1,4-Dioxane	ND		5.0	2.0	ug/L		11/17/21 18:08	11/22/21 00:40	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		11/17/21 18:08	11/22/21 00:40	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		11/17/21 18:08	11/22/21 00:40	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		11/17/21 18:08	11/22/21 00:40	1
2-Chlorophenol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		11/17/21 18:08	11/22/21 00:40	1
2-Methylphenol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2-Nitroaniline	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
2-Nitrophenol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		11/17/21 18:08	11/22/21 00:40	1
3-Nitroaniline	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		11/17/21 18:08	11/22/21 00:40	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
4-Chloroaniline	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
4-Methylphenol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
4-Nitroaniline	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
4-Nitrophenol	ND		5.0	0.90	ug/L		11/17/21 18:08	11/22/21 00:40	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-196016/1-A
Matrix: Water
Analysis Batch: 197322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.25	ug/L		11/17/21 18:08	11/22/21 00:40	1
Acenaphthylene	ND		5.0	0.20	ug/L		11/17/21 18:08	11/22/21 00:40	1
Acetophenone	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Aniline	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Anthracene	ND		5.0	0.25	ug/L		11/17/21 18:08	11/22/21 00:40	1
a-Terpineol	ND		5.0	0.60	ug/L		11/17/21 18:08	11/22/21 00:40	1
Benzidine	ND		60	6.0	ug/L		11/17/21 18:08	11/22/21 00:40	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		11/17/21 18:08	11/22/21 00:40	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		11/17/21 18:08	11/22/21 00:40	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		11/17/21 18:08	11/22/21 00:40	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		11/17/21 18:08	11/22/21 00:40	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		11/17/21 18:08	11/22/21 00:40	1
Benzoic acid	ND		30	4.0	ug/L		11/17/21 18:08	11/22/21 00:40	1
Benzyl alcohol	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		11/17/21 18:08	11/22/21 00:40	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		11/17/21 18:08	11/22/21 00:40	1
Carbazole	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Chrysene	ND		5.0	0.20	ug/L		11/17/21 18:08	11/22/21 00:40	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		11/17/21 18:08	11/22/21 00:40	1
Dibenzofuran	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Diethylphthalate	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Dimethylphthalate	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		11/17/21 18:08	11/22/21 00:40	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Diphenyl ether	ND		5.0	0.75	ug/L		11/17/21 18:08	11/22/21 00:40	1
Fluoranthene	ND		5.0	0.20	ug/L		11/17/21 18:08	11/22/21 00:40	1
Fluorene	ND		5.0	0.20	ug/L		11/17/21 18:08	11/22/21 00:40	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		11/17/21 18:08	11/22/21 00:40	1
Hexachloroethane	ND		2.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		11/17/21 18:08	11/22/21 00:40	1
Isophorone	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Naphthalene	ND		2.0	0.30	ug/L		11/17/21 18:08	11/22/21 00:40	1
n-Decane	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
n-Docosane	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
n-Eicosane	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
n-Hexadecane	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Nitrobenzene	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
n-Octadecane	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
n-Tetradecane	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-196016/1-A
Matrix: Water
Analysis Batch: 197322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Toluidine	ND		5.0	1.0	ug/L		11/17/21 18:08	11/22/21 00:40	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Pentachlorophenol	ND		5.0	0.80	ug/L		11/17/21 18:08	11/22/21 00:40	1
Phenanthrene	ND		5.0	0.20	ug/L		11/17/21 18:08	11/22/21 00:40	1
Phenol	ND		1.0	0.50	ug/L		11/17/21 18:08	11/22/21 00:40	1
Pyrene	ND		5.0	0.25	ug/L		11/17/21 18:08	11/22/21 00:40	1
Pyridine	ND		5.0	0.80	ug/L		11/17/21 18:08	11/22/21 00:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*55*		*23 - 140*	*11/17/21 18:08*	*11/22/21 00:40*	*1*
2-Fluorobiphenyl (Surr)	*6*	*S1-*	*36 - 101*	*11/17/21 18:08*	*11/22/21 00:40*	*1*
2-Fluorophenol (Surr)	*23*		*10 - 77*	*11/17/21 18:08*	*11/22/21 00:40*	*1*
Nitrobenzene-d5 (Surr)	*15*	*S1-*	*49 - 106*	*11/17/21 18:08*	*11/22/21 00:40*	*1*
Phenol-d5 (Surr)	*21*		*10 - 59*	*11/17/21 18:08*	*11/22/21 00:40*	*1*
p-Terphenyl-d14 (Surr)	*68*		*26 - 119*	*11/17/21 18:08*	*11/22/21 00:40*	*1*

Lab Sample ID: LCS 410-196016/2-A
Matrix: Water
Analysis Batch: 197322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	50.0	43.7		ug/L		87	52 - 106
1,2,4,5-Tetrachlorobenzene	50.0	40.0		ug/L		80	43 - 94
1,2,4-Trichlorobenzene	50.0	36.6		ug/L		73	44 - 142
1,2-Dichlorobenzene	50.0	35.9		ug/L		72	36 - 87
1,2-Diphenylhydrazine	50.0	48.6		ug/L		97	69 - 117
1,3-Dichlorobenzene	50.0	34.1		ug/L		68	30 - 85
1,4-Dichlorobenzene	50.0	34.9		ug/L		70	32 - 85
1,4-Dioxane	50.0	22.2		ug/L		44	30 - 60
1-Methylnaphthalene	50.0	43.2		ug/L		86	53 - 91
1-Methylphenanthrene	50.0	50.0		ug/L		100	56 - 128
2,2'-oxybis[1-chloropropane]	50.0	41.0		ug/L		82	48 - 110
2,3,4,6-Tetrachlorophenol	50.0	42.3		ug/L		85	72 - 115
2,3-Dichloroaniline	50.0	48.9		ug/L		98	65 - 118
2,4,5-Trichlorophenol	50.0	45.4		ug/L		91	70 - 110
2,4,6-Trichlorophenol	50.0	46.2		ug/L		92	37 - 144
2,4-Dichlorophenol	50.0	47.5		ug/L		95	39 - 135
2,4-Dimethylphenol	50.0	43.8		ug/L		88	32 - 120
2,4-Dinitrophenol	100	94.4		ug/L		94	10 - 191
2,4-Dinitrotoluene	50.0	45.4		ug/L		91	39 - 139
2,6-Dichlorophenol	50.0	47.2		ug/L		94	48 - 114
2,6-Dinitrotoluene	50.0	45.6		ug/L		91	50 - 158
2-Chloronaphthalene	50.0	38.2		ug/L		76	60 - 120
2-Chlorophenol	50.0	39.8		ug/L		80	23 - 134
2-Methylnaphthalene	50.0	40.7		ug/L		81	50 - 100
2-Methylphenol	50.0	39.8		ug/L		80	56 - 99
2-Nitroaniline	50.0	44.8		ug/L		90	71 - 119
2-Nitrophenol	50.0	42.2		ug/L		84	29 - 182

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-196016/2-A
Matrix: Water
Analysis Batch: 197322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3,3'-Dichlorobenzidine	100	88.0		ug/L		88	10 - 200
3-Nitroaniline	50.0	46.5		ug/L		93	64 - 113
4,6-Dinitro-2-methylphenol	100	98.2		ug/L		98	10 - 181
4-Bromophenyl-phenylether	50.0	44.5		ug/L		89	53 - 127
4-Chloro-3-methylphenol	50.0	40.6		ug/L		81	22 - 147
4-Chloroaniline	50.0	39.5		ug/L		79	47 - 93
4-Chlorophenyl-phenylether	50.0	44.3		ug/L		89	25 - 158
4-Methylphenol	50.0	34.6		ug/L		69	47 - 96
4-Nitroaniline	50.0	44.9		ug/L		90	52 - 112
4-Nitrophenol	100	38.9		ug/L		39	10 - 132
Acenaphthene	50.0	45.3		ug/L		91	47 - 145
Acenaphthylene	50.0	47.5		ug/L		95	33 - 145
Acetophenone	50.0	37.9		ug/L		76	64 - 101
Aniline	50.0	38.4		ug/L		77	24 - 79
Anthracene	50.0	47.1		ug/L		94	27 - 133
a-Terpineol	50.0	44.6		ug/L		89	55 - 122
Benzidine	100	15.0	J	ug/L		15	10 - 48
Benzo[a]anthracene	50.0	47.2		ug/L		94	33 - 143
Benzo[a]pyrene	50.0	40.9		ug/L		82	17 - 163
Benzo[b]fluoranthene	50.0	46.1		ug/L		92	24 - 159
Benzo[g,h,i]perylene	50.0	47.2		ug/L		94	10 - 200
Benzo[k]fluoranthene	50.0	45.1		ug/L		90	11 - 162
Benzoic acid	50.0	19.2	J	ug/L		38	10 - 74
Benzyl alcohol	50.0	39.8		ug/L		80	52 - 109
Bis(2-chloroethoxy)methane	50.0	45.1		ug/L		90	33 - 184
Bis(2-chloroethyl)ether	50.0	41.8		ug/L		84	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	42.9		ug/L		86	10 - 158
Butylbenzylphthalate	50.0	37.0		ug/L		74	10 - 152
Carbazole	50.0	47.2		ug/L		94	72 - 114
Chrysene	50.0	46.1		ug/L		92	17 - 168
Dibenz(a,h)anthracene	50.0	47.4		ug/L		95	10 - 200
Dibenzofuran	50.0	45.7		ug/L		91	64 - 106
Diethylphthalate	50.0	41.3		ug/L		83	10 - 120
Dimethylphthalate	50.0	34.4		ug/L		69	10 - 120
Di-n-butyl phthalate	50.0	43.5		ug/L		87	10 - 120
Di-n-octyl phthalate	50.0	41.7		ug/L		83	10 - 146
Diphenyl ether	50.0	46.6		ug/L		93	59 - 105
Fluoranthene	50.0	46.0		ug/L		92	26 - 137
Fluorene	50.0	45.7		ug/L		91	59 - 121
Hexachlorobenzene	50.0	46.4		ug/L		93	10 - 152
Hexachlorobutadiene	50.0	33.3		ug/L		67	24 - 120
Hexachlorocyclopentadiene	50.0	11.8	J	ug/L		24	10 - 79
Hexachloroethane	50.0	32.9		ug/L		66	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	43.2		ug/L		86	10 - 171
Isophorone	50.0	44.4		ug/L		89	21 - 196
Naphthalene	50.0	41.7		ug/L		83	21 - 133
n-Decane	50.0	30.8		ug/L		62	31 - 93
n-Docosane	50.0	42.1		ug/L		84	55 - 152
n-Eicosane	50.0	41.8		ug/L		84	49 - 151

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-196016/2-A
Matrix: Water
Analysis Batch: 197322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Hexadecane	50.0	36.4		ug/L		73	50 - 127
Nitrobenzene	50.0	44.6		ug/L		89	35 - 180
N-Nitrosodimethylamine	50.0	25.8		ug/L		52	38 - 74
N-Nitrosodi-n-propylamine	50.0	39.1		ug/L		78	10 - 200
N-Nitrosodiphenylamine	42.5	41.5		ug/L		98	72 - 113
n-Octadecane	50.0	42.2		ug/L		84	59 - 133
n-Tetradecane	50.0	38.5		ug/L		77	46 - 113
Pentachlorophenol	100	102		ug/L		102	14 - 176
Phenanthrene	50.0	49.2		ug/L		98	54 - 120
Phenol	50.0	21.2		ug/L		42	10 - 120
Pyrene	50.0	49.2		ug/L		98	52 - 120
Pyridine	100	56.6	*+	ug/L		57	27 - 52

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*87*		*23 - 140*
2-Fluorobiphenyl (Surr)	*89*		*36 - 101*
2-Fluorophenol (Surr)	*55*		*10 - 77*
Nitrobenzene-d5 (Surr)	*91*		*49 - 106*
Phenol-d5 (Surr)	*36*		*10 - 59*
p-Terphenyl-d14 (Surr)	*106*		*26 - 119*

Lab Sample ID: LCS 410-196016/4-A
Matrix: Water
Analysis Batch: 197322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	50.0	44.9		ug/L		90	75 - 110
N-Nitrosodi-n-butylamine	50.0	35.9		ug/L		72	57 - 101
N-Nitrosopyrrolidine	50.0	44.2		ug/L		88	65 - 112
o-Toluidine	50.0	44.1	*+	ug/L		88	52 - 82
Pentachlorobenzene	50.0	42.4		ug/L		85	27 - 108

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*90*		*23 - 140*
2-Fluorobiphenyl (Surr)	*87*		*36 - 101*
2-Fluorophenol (Surr)	*57*		*10 - 77*
Nitrobenzene-d5 (Surr)	*93*		*49 - 106*
Phenol-d5 (Surr)	*41*		*10 - 59*
p-Terphenyl-d14 (Surr)	*104*		*26 - 119*

Lab Sample ID: LCSD 410-196016/3-A
Matrix: Water
Analysis Batch: 197322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	50.0	41.1		ug/L		82	52 - 106	6	30
1,2,4,5-Tetrachlorobenzene	50.0	37.3		ug/L		75	43 - 94	7	30
1,2,4-Trichlorobenzene	50.0	34.0		ug/L		68	44 - 142	7	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-196016/3-A
Matrix: Water
Analysis Batch: 197322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	32.4		ug/L		65	36 - 87	10	30
1,2-Diphenylhydrazine	50.0	45.7		ug/L		91	69 - 117	6	30
1,3-Dichlorobenzene	50.0	30.7		ug/L		61	30 - 85	11	30
1,4-Dichlorobenzene	50.0	31.8		ug/L		64	32 - 85	9	30
1,4-Dioxane	50.0	23.5		ug/L		47	30 - 60	5	30
1-Methylnaphthalene	50.0	40.8		ug/L		82	53 - 91	6	30
1-Methylphenanthrene	50.0	48.4		ug/L		97	56 - 128	3	30
2,2'-oxybis[1-chloropropane]	50.0	38.1		ug/L		76	48 - 110	7	30
2,3,4,6-Tetrachlorophenol	50.0	43.2		ug/L		86	72 - 115	2	30
2,3-Dichloroaniline	50.0	45.8		ug/L		92	65 - 118	7	30
2,4,5-Trichlorophenol	50.0	44.8		ug/L		90	70 - 110	1	30
2,4,6-Trichlorophenol	50.0	45.4		ug/L		91	37 - 144	2	30
2,4-Dichlorophenol	50.0	50.1		ug/L		100	39 - 135	5	30
2,4-Dimethylphenol	50.0	42.4		ug/L		85	32 - 120	3	30
2,4-Dinitrophenol	100	91.0		ug/L		91	10 - 191	4	30
2,4-Dinitrotoluene	50.0	42.5		ug/L		85	39 - 139	7	30
2,6-Dichlorophenol	50.0	48.7		ug/L		97	48 - 114	3	30
2,6-Dinitrotoluene	50.0	40.6		ug/L		81	50 - 158	11	30
2-Chloronaphthalene	50.0	34.4		ug/L		69	60 - 120	11	24
2-Chlorophenol	50.0	40.6		ug/L		81	23 - 134	2	30
2-Methylnaphthalene	50.0	39.0		ug/L		78	50 - 100	4	30
2-Methylphenol	50.0	39.2		ug/L		78	56 - 99	2	30
2-Nitroaniline	50.0	43.9		ug/L		88	71 - 119	2	30
2-Nitrophenol	50.0	43.1		ug/L		86	29 - 182	2	30
3,3'-Dichlorobenzidine	100	77.6		ug/L		78	10 - 200	13	30
3-Nitroaniline	50.0	42.9		ug/L		86	64 - 113	8	30
4,6-Dinitro-2-methylphenol	100	107		ug/L		107	10 - 181	9	30
4-Bromophenyl-phenylether	50.0	46.1		ug/L		92	53 - 127	4	30
4-Chloro-3-methylphenol	50.0	42.0		ug/L		84	22 - 147	4	30
4-Chloroaniline	50.0	38.6		ug/L		77	47 - 93	2	30
4-Chlorophenyl-phenylether	50.0	41.2		ug/L		82	25 - 158	7	30
4-Methylphenol	50.0	35.1		ug/L		70	47 - 96	1	30
4-Nitroaniline	50.0	42.1		ug/L		84	52 - 112	6	30
4-Nitrophenol	100	41.9		ug/L		42	10 - 132	7	30
Acenaphthene	50.0	41.4		ug/L		83	47 - 145	9	30
Acenaphthylene	50.0	43.7		ug/L		87	33 - 145	8	30
Acetophenone	50.0	35.4		ug/L		71	64 - 101	7	30
Aniline	50.0	36.2		ug/L		72	24 - 79	6	30
Anthracene	50.0	44.6		ug/L		89	27 - 133	6	30
a-Terpineol	50.0	43.1		ug/L		86	55 - 122	3	30
Benzidine	100	17.6	J	ug/L		18	10 - 48	16	30
Benzo[a]anthracene	50.0	47.1		ug/L		94	33 - 143	0	30
Benzo[a]pyrene	50.0	38.4		ug/L		77	17 - 163	6	30
Benzo[b]fluoranthene	50.0	41.6		ug/L		83	24 - 159	10	30
Benzo[g,h,i]perylene	50.0	46.3		ug/L		93	10 - 200	2	30
Benzo[k]fluoranthene	50.0	47.7		ug/L		95	11 - 162	6	30
Benzoic acid	50.0	21.1	J	ug/L		42	10 - 74	9	30
Benzyl alcohol	50.0	42.3		ug/L		85	52 - 109	6	30
Bis(2-chloroethoxy)methane	50.0	43.0		ug/L		86	33 - 184	5	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-196016/3-A
Matrix: Water
Analysis Batch: 197322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether	50.0	39.3		ug/L		79	12 - 158	6	30
Bis(2-ethylhexyl) phthalate	50.0	42.6		ug/L		85	10 - 158	1	30
Butylbenzylphthalate	50.0	28.0		ug/L		56	10 - 152	28	30
Carbazole	50.0	45.8		ug/L		92	72 - 114	3	30
Chrysene	50.0	45.7		ug/L		91	17 - 168	1	30
Dibenz(a,h)anthracene	50.0	47.0		ug/L		94	10 - 200	1	30
Dibenzofuran	50.0	42.9		ug/L		86	64 - 106	6	30
Diethylphthalate	50.0	35.2		ug/L		70	10 - 120	16	30
Dimethylphthalate	50.0	22.1	*1	ug/L		44	10 - 120	44	30
Di-n-butyl phthalate	50.0	38.1		ug/L		76	10 - 120	13	30
Di-n-octyl phthalate	50.0	40.6		ug/L		81	10 - 146	3	30
Diphenyl ether	50.0	42.7		ug/L		85	59 - 105	9	30
Fluoranthene	50.0	43.8		ug/L		88	26 - 137	5	30
Fluorene	50.0	42.4		ug/L		85	59 - 121	8	30
Hexachlorobenzene	50.0	47.0		ug/L		94	10 - 152	1	30
Hexachlorobutadiene	50.0	33.0		ug/L		66	24 - 120	1	30
Hexachlorocyclopentadiene	50.0	10.3	J	ug/L		21	10 - 79	13	30
Hexachloroethane	50.0	29.2		ug/L		58	40 - 120	12	30
Indeno[1,2,3-cd]pyrene	50.0	43.8		ug/L		88	10 - 171	1	30
Isophorone	50.0	42.7		ug/L		85	21 - 196	4	30
Naphthalene	50.0	39.5		ug/L		79	21 - 133	5	30
n-Decane	50.0	30.7		ug/L		61	31 - 93	0	30
n-Docosane	50.0	40.0		ug/L		80	55 - 152	5	30
n-Eicosane	50.0	40.2		ug/L		80	49 - 151	4	30
n-Hexadecane	50.0	36.0		ug/L		72	50 - 127	1	30
Nitrobenzene	50.0	42.5		ug/L		85	35 - 180	5	30
N-Nitrosodimethylamine	50.0	28.4		ug/L		57	38 - 74	10	30
N-Nitrosodi-n-propylamine	50.0	36.2		ug/L		72	10 - 200	8	30
N-Nitrosodiphenylamine	42.5	39.2		ug/L		92	72 - 113	6	30
n-Octadecane	50.0	39.6		ug/L		79	59 - 133	6	30
n-Tetradecane	50.0	37.4		ug/L		75	46 - 113	3	30
Pentachlorophenol	100	95.5		ug/L		96	14 - 176	7	30
Phenanthrene	50.0	45.9		ug/L		92	54 - 120	7	30
Phenol	50.0	21.6		ug/L		43	10 - 120	2	30
Pyrene	50.0	46.2		ug/L		92	52 - 120	6	30
Pyridine	100	58.0	*+	ug/L		58	27 - 52	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*88*		*23 - 140*
2-Fluorobiphenyl (Surr)	*81*		*36 - 101*
2-Fluorophenol (Surr)	*56*		*10 - 77*
Nitrobenzene-d5 (Surr)	*88*		*49 - 106*
Phenol-d5 (Surr)	*37*		*10 - 59*
p-Terphenyl-d14 (Surr)	*101*		*26 - 119*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-196016/5-A
Matrix: Water
Analysis Batch: 197322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196016

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiethylamine			50.0	37.0	*-	ug/L		74	75 - 110	19	30
N-Nitrosodi-n-butylamine			50.0	28.6		ug/L		57	57 - 101	23	30
N-Nitrosopyrrolidine			50.0	37.9		ug/L		76	65 - 112	15	30
o-Toluidine			50.0	36.0		ug/L		72	52 - 82	20	30
Pentachlorobenzene			50.0	37.2		ug/L		74	27 - 108	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*81*		*23 - 140*
2-Fluorobiphenyl (Surr)	*76*		*36 - 101*
2-Fluorophenol (Surr)	*52*		*10 - 77*
Nitrobenzene-d5 (Surr)	*75*		*49 - 106*
Phenol-d5 (Surr)	*34*		*10 - 59*
p-Terphenyl-d14 (Surr)	*96*		*26 - 119*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-194774/1-A
Matrix: Water
Analysis Batch: 194778

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		11/15/21 07:00	11/15/21 08:44	1
Ethene (1C)	ND		5.0	1.0	ug/L		11/15/21 07:00	11/15/21 08:44	1
Methane (1C)	ND		5.0	3.0	ug/L		11/15/21 07:00	11/15/21 08:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*105*		*28 - 130*	*11/15/21 07:00*	*11/15/21 08:44*	*1*

Lab Sample ID: LCS 410-194774/2-A
Matrix: Water
Analysis Batch: 194778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194774

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane (1C)			59.4	60.2		ug/L		101	85 - 115
Ethene (1C)			60.4	59.6		ug/L		99	83 - 115
Methane (1C)			59.4	57.3		ug/L		97	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*103*		*28 - 130*

Lab Sample ID: LCSD 410-194774/3-A
Matrix: Water
Analysis Batch: 194778

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 194774

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane (1C)			59.4	59.3		ug/L		100	85 - 115	1	20
Ethene (1C)			60.4	59.4		ug/L		98	83 - 115	0	20
Methane (1C)			59.4	56.5		ug/L		95	85 - 115	1	20

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Propene (1C)	102		28 - 130

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 410-195128/1-A
Matrix: Water
Analysis Batch: 195651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	ND		0.010	0.0050	ug/L		11/16/21 09:35	11/17/21 07:23	1
alpha-BHC (1C)	ND		0.030	0.012	ug/L		11/16/21 09:35	11/17/21 07:23	1
beta-BHC (1C)	ND		0.10	0.046	ug/L		11/16/21 09:35	11/17/21 07:23	1
alpha-Chlordane (1C)	ND		0.010	0.0060	ug/L		11/16/21 09:35	11/17/21 07:23	1
delta-BHC (1C)	ND		0.030	0.011	ug/L		11/16/21 09:35	11/17/21 07:23	1
Dieldrin (1C)	ND		0.020	0.0080	ug/L		11/16/21 09:35	11/17/21 07:23	1
Endosulfan I (1C)	ND		0.010	0.0030	ug/L		11/16/21 09:35	11/17/21 07:23	1
Endosulfan II (1C)	ND		0.020	0.0098	ug/L		11/16/21 09:35	11/17/21 07:23	1
Endosulfan sulfate (1C)	ND		0.020	0.010	ug/L		11/16/21 09:35	11/17/21 07:23	1
Endrin (1C)	ND		0.10	0.0090	ug/L		11/16/21 09:35	11/17/21 07:23	1
Endrin aldehyde (1C)	ND		0.020	0.0091	ug/L		11/16/21 09:35	11/17/21 07:23	1
gamma-BHC (Lindane) (1C)	ND		0.010	0.0052	ug/L		11/16/21 09:35	11/17/21 07:23	1
Heptachlor (1C)	ND		0.010	0.0080	ug/L		11/16/21 09:35	11/17/21 07:23	1
Heptachlor epoxide (1C)	ND		0.10	0.0050	ug/L		11/16/21 09:35	11/17/21 07:23	1
4,4'-DDD (1C)	ND		0.020	0.0090	ug/L		11/16/21 09:35	11/17/21 07:23	1
4,4'-DDE (1C)	ND		0.040	0.020	ug/L		11/16/21 09:35	11/17/21 07:23	1
4,4'-DDT (1C)	ND		0.020	0.010	ug/L		11/16/21 09:35	11/17/21 07:23	1
Toxaphene (1C)	ND		1.0	0.36	ug/L		11/16/21 09:35	11/17/21 07:23	1
Chlordane (n.o.s.) (1C)	ND		0.50	0.23	ug/L		11/16/21 09:35	11/17/21 07:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	46		32 - 149	11/16/21 09:35	11/17/21 07:23	1
Tetrachloro-m-xylene (1C)	52		29 - 129	11/16/21 09:35	11/17/21 07:23	1

Lab Sample ID: LCS 410-195128/2-A
Matrix: Water
Analysis Batch: 195651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin (2C)	0.101	0.0631		ug/L		62	42 - 140
alpha-BHC (1C)	0.101	0.0639		ug/L		63	37 - 140
beta-BHC (1C)	0.100	0.0766	J	ug/L		77	17 - 140
alpha-Chlordane (2C)	0.100	0.0739		ug/L		74	45 - 147
delta-BHC (2C)	0.100	0.0785		ug/L		78	19 - 140
Dieldrin (2C)	0.200	0.158		ug/L		79	36 - 146
Endosulfan I (2C)	0.101	0.0740		ug/L		73	45 - 153
Endosulfan II (2C)	0.201	0.168		ug/L		83	10 - 200
Endosulfan sulfate (2C)	0.201	0.163		ug/L		81	26 - 144
Endrin (2C)	0.200	0.154		ug/L		77	30 - 147
Endrin aldehyde (2C)	0.201	0.145		ug/L		72	60 - 140
gamma-BHC (Lindane) (2C)	0.100	0.0717		ug/L		72	32 - 140
Heptachlor (1C)	0.101	0.0696		ug/L		69	34 - 140

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 410-195128/2-A
Matrix: Water
Analysis Batch: 195651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide (2C)	0.100	0.0773	J	ug/L		77	37 - 142
4,4'-DDD (2C)	0.201	0.154		ug/L		76	31 - 141
4,4'-DDE (2C)	0.201	0.140		ug/L		69	30 - 146
4,4'-DDT (2C)	0.201	0.162		ug/L		81	25 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*39*		*32 - 149*
Tetrachloro-m-xylene (1C)	*52*		*29 - 129*

Lab Sample ID: LCSD 410-195128/3-A
Matrix: Water
Analysis Batch: 195651

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195128

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin (2C)	0.101	0.0687		ug/L		68	42 - 140	9	35
alpha-BHC (1C)	0.101	0.0596		ug/L		59	37 - 140	7	36
beta-BHC (1C)	0.100	0.0765	J	ug/L		76	17 - 140	0	44
alpha-Chlordane (2C)	0.100	0.0758		ug/L		76	45 - 147	2	35
delta-BHC (2C)	0.100	0.0740		ug/L		74	19 - 140	6	52
Dieldrin (2C)	0.200	0.155		ug/L		78	36 - 146	2	49
Endosulfan I (2C)	0.101	0.0739		ug/L		73	45 - 153	0	28
Endosulfan II (2C)	0.201	0.158		ug/L		78	10 - 200	6	53
Endosulfan sulfate (2C)	0.201	0.150		ug/L		75	26 - 144	8	38
Endrin (2C)	0.200	0.154		ug/L		77	30 - 147	0	48
Endrin aldehyde (2C)	0.201	0.143		ug/L		71	60 - 140	1	30
gamma-BHC (Lindane) (2C)	0.100	0.0701		ug/L		70	32 - 140	2	39
Heptachlor (2C)	0.101	0.0730		ug/L		72	34 - 140	5	43
Heptachlor epoxide (2C)	0.100	0.0762	J	ug/L		76	37 - 142	1	26
4,4'-DDD (2C)	0.201	0.151		ug/L		75	31 - 141	2	39
4,4'-DDE (2C)	0.201	0.141		ug/L		70	30 - 146	1	35
4,4'-DDT (2C)	0.201	0.174		ug/L		86	25 - 160	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*49*		*32 - 149*
Tetrachloro-m-xylene (1C)	*57*		*29 - 129*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-195129/1-A
Matrix: Water
Analysis Batch: 195921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195129

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.50	0.096	ug/L		11/16/21 09:37	11/17/21 09:13	1
PCB-1221 (1C)	ND		0.50	0.21	ug/L		11/16/21 09:37	11/17/21 09:13	1
PCB-1232 (1C)	ND		0.50	0.13	ug/L		11/16/21 09:37	11/17/21 09:13	1
PCB-1242 (1C)	ND		0.50	0.20	ug/L		11/16/21 09:37	11/17/21 09:13	1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 410-195129/1-A
Matrix: Water
Analysis Batch: 195921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195129

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248 (1C)	ND		0.50	0.21	ug/L		11/16/21 09:37	11/17/21 09:13	1
PCB-1254 (1C)	ND		0.50	0.16	ug/L		11/16/21 09:37	11/17/21 09:13	1
PCB-1260 (1C)	ND		0.50	0.079	ug/L		11/16/21 09:37	11/17/21 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*67*		*10 - 127*	*11/16/21 09:37*	*11/17/21 09:13*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*66*		*10 - 127*	*11/16/21 09:37*	*11/17/21 09:13*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*75*		*18 - 115*	*11/16/21 09:37*	*11/17/21 09:13*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*68*		*18 - 115*	*11/16/21 09:37*	*11/17/21 09:13*	*1*

Lab Sample ID: LCS 410-195129/2-A
Matrix: Water
Analysis Batch: 195921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195129

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016 (2C)			5.02	4.11		ug/L		82	50 - 140		
PCB-1260 (2C)			5.04	4.69		ug/L		93	10 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*89*		*10 - 127*
DCB Decachlorobiphenyl (Surr) (2C)	*84*		*10 - 127*
Tetrachloro-m-xylene (Surr) (1C)	*63*		*18 - 115*
Tetrachloro-m-xylene (Surr) (2C)	*59*		*18 - 115*

Lab Sample ID: LCSD 410-195129/3-A
Matrix: Water
Analysis Batch: 195921

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195129

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016 (2C)			5.02	4.08		ug/L		81	50 - 140	1	36
PCB-1260 (2C)			5.04	4.58		ug/L		91	10 - 140	2	38

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*93*		*10 - 127*
DCB Decachlorobiphenyl (Surr) (2C)	*86*		*10 - 127*
Tetrachloro-m-xylene (Surr) (1C)	*66*		*18 - 115*
Tetrachloro-m-xylene (Surr) (2C)	*61*		*18 - 115*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-195984/5
Matrix: Water
Analysis Batch: 195984

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.30	mg/L			11/17/21 19:50	1
Chloride	ND		0.40	0.20	mg/L			11/17/21 19:50	1

Lab Sample ID: LCS 410-195984/3
Matrix: Water
Analysis Batch: 195984

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	7.50	7.55		mg/L		101	90 - 110
Chloride	3.00	2.80		mg/L		93	90 - 110

Lab Sample ID: LCSD 410-195984/4
Matrix: Water
Analysis Batch: 195984

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	7.50	7.53		mg/L		100	90 - 110	0	20
Chloride	3.00	2.79		mg/L		93	90 - 110	0	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-194638/1-A
Matrix: Water
Analysis Batch: 195521

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 194638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		11/15/21 04:06	11/16/21 16:02	1
Aluminum	ND		25	20	ug/L		11/15/21 04:06	11/16/21 16:02	1
Arsenic	ND		2.0	0.68	ug/L		11/15/21 04:06	11/16/21 16:02	1
Barium	ND		2.0	0.75	ug/L		11/15/21 04:06	11/16/21 16:02	1
Beryllium	ND		0.50	0.12	ug/L		11/15/21 04:06	11/16/21 16:02	1
Cadmium	ND		0.50	0.15	ug/L		11/15/21 04:06	11/16/21 16:02	1
Calcium	ND		100	74	ug/L		11/15/21 04:06	11/16/21 16:02	1
Chromium	ND		2.0	0.33	ug/L		11/15/21 04:06	11/16/21 16:02	1
Cobalt	ND		0.50	0.16	ug/L		11/15/21 04:06	11/16/21 16:02	1
Copper	ND		1.0	0.36	ug/L		11/15/21 04:06	11/16/21 16:02	1
Iron	ND		50	23	ug/L		11/15/21 04:06	11/16/21 16:02	1
Lead	ND		0.50	0.071	ug/L		11/15/21 04:06	11/16/21 16:02	1
Magnesium	ND		50	10	ug/L		11/15/21 04:06	11/16/21 16:02	1
Manganese	ND		2.0	0.63	ug/L		11/15/21 04:06	11/16/21 16:02	1
Nickel	ND		1.0	0.60	ug/L		11/15/21 04:06	11/16/21 16:02	1
Potassium	ND		200	110	ug/L		11/15/21 04:06	11/16/21 16:02	1
Selenium	ND		1.0	0.28	ug/L		11/15/21 04:06	11/16/21 16:02	1
Silver	ND		0.50	0.17	ug/L		11/15/21 04:06	11/16/21 16:02	1
Sodium	ND		200	50	ug/L		11/15/21 04:06	11/16/21 16:02	1
Thallium	ND		0.50	0.13	ug/L		11/15/21 04:06	11/16/21 16:02	1
Vanadium	ND		4.0	0.79	ug/L		11/15/21 04:06	11/16/21 16:02	1
Zinc	ND		10	6.2	ug/L		11/15/21 04:06	11/16/21 16:02	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-194638/2-A
Matrix: Water
Analysis Batch: 195521

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 194638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	100	103		ug/L		103	85 - 115
Aluminum	5000	4950		ug/L		99	85 - 115
Arsenic	500	472		ug/L		94	85 - 115
Barium	500	511		ug/L		102	85 - 115
Beryllium	50.0	48.0		ug/L		96	85 - 115
Cadmium	50.0	51.4		ug/L		103	85 - 115
Calcium	5000	4820		ug/L		96	85 - 115
Chromium	500	466		ug/L		93	85 - 115
Cobalt	500	471	E	ug/L		94	85 - 115
Copper	500	461		ug/L		92	85 - 115
Iron	5000	4860		ug/L		97	85 - 115
Lead	50.0	51.1		ug/L		102	85 - 115
Magnesium	5000	4930		ug/L		99	85 - 115
Manganese	500	484		ug/L		97	85 - 115
Nickel	500	486		ug/L		97	85 - 115
Potassium	5000	4740		ug/L		95	85 - 115
Selenium	100	98.0		ug/L		98	85 - 115
Silver	50.0	49.9		ug/L		100	85 - 115
Sodium	5000	4830		ug/L		97	85 - 115
Thallium	100	102		ug/L		102	85 - 115
Vanadium	500	486		ug/L		97	85 - 115
Zinc	500	495		ug/L		99	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-194646/1-A
Matrix: Water
Analysis Batch: 195544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194646

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/15/21 04:53	11/16/21 16:50	1

Lab Sample ID: LCS 410-194646/2-A
Matrix: Water
Analysis Batch: 195544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194646

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00100	0.00112		mg/L		112	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-195570/1
Matrix: Water
Analysis Batch: 195570

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			11/16/21 19:37	1

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 410-195570/2
Matrix: Water
Analysis Batch: 195570

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	34.50		mg/L		86	78 - 114

Lab Sample ID: LCSD 410-195570/3
Matrix: Water
Analysis Batch: 195570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	31.40		mg/L		79	78 - 114	9	13

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-194358/3
Matrix: Water
Analysis Batch: 194358

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			11/12/21 17:50	1

Lab Sample ID: LCS 410-194358/4
Matrix: Water
Analysis Batch: 194358

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Turbidity	10.0	9.8		NTU		98	90 - 104

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-195904/33
Matrix: Water
Analysis Batch: 195904

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			11/16/21 20:25	1

Lab Sample ID: LCS 410-195904/35
Matrix: Water
Analysis Batch: 195904

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	189	165		mg/L		88	82 - 106

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-195374/4
Matrix: Water
Analysis Batch: 195374

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			11/15/21 21:29	1

Method: 2340C-2011 - Hardness, Total (Continued)

Lab Sample ID: LCS 410-195374/5
Matrix: Water
Analysis Batch: 195374

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Hardness	40.0	40.5		mg/L		101	91 - 108

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-195905/33
Matrix: Water
Analysis Batch: 195905

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	3.65	J	5.0	1.7	umhos/cm			11/16/21 20:25	1

Lab Sample ID: LCS 410-195905/36
Matrix: Water
Analysis Batch: 195905

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	147	149		umhos/cm		102	97 - 103

Method: 2540C-2011 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-195137/1
Matrix: Water
Analysis Batch: 195137

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			11/16/21 07:19	1

Lab Sample ID: LCS 410-195137/2
Matrix: Water
Analysis Batch: 195137

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	200	198		mg/L		99	72 - 127

Method: 2540D-2011 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-194412/1
Matrix: Water
Analysis Batch: 194412

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.0	1.0	mg/L			11/15/21 01:35	1

Lab Sample ID: LCS 410-194412/2
Matrix: Water
Analysis Batch: 194412

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	150	149		mg/L		99	89 - 105

Method: 2540F-2011 - Solids, Settleable

Lab Sample ID: MB 410-194394/1
Matrix: Water
Analysis Batch: 194394

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			11/12/21 19:25	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-196484/2-A
Matrix: Water
Analysis Batch: 196825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		11/18/21 12:15	11/19/21 07:35	1

Lab Sample ID: LCS 410-196484/1-A
Matrix: Water
Analysis Batch: 196825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	4.00	4.10		mg/L		102	90 - 110

Lab Sample ID: LCS 410-196484/1-A
Matrix: Water
Analysis Batch: 196825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	4.00	4.33		mg/L		108	90 - 110

Lab Sample ID: LCS 410-196484/1-A
Matrix: Water
Analysis Batch: 196825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	4.00	4.34		mg/L		108	90 - 110

Lab Sample ID: 410-63034-1 MS
Matrix: Groundwater
Analysis Batch: 196825

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA
Prep Batch: 196484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.92	J F1	4.00	4.30	F1	mg/L		84	90 - 110

Lab Sample ID: 410-63034-1 DU
Matrix: Groundwater
Analysis Batch: 196825

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA
Prep Batch: 196484

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	0.92	J F1	0.829	J	mg/L		10	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-195530/2-A
Matrix: Water
Analysis Batch: 196770

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		11/16/21 17:47	11/19/21 08:01	1

Lab Sample ID: LCS 410-195530/1-A
Matrix: Water
Analysis Batch: 196770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Phosphorus as PO4	4.07	4.30		mg/L		106	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 410-195360/4
Matrix: Water
Analysis Batch: 195360

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			11/15/21 21:31	1

Lab Sample ID: LCS 410-195360/5
Matrix: Water
Analysis Batch: 195360

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	500	497		mg/L		99	94 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-196433/30
Matrix: Water
Analysis Batch: 196433

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/18/21 08:46	1

Lab Sample ID: LCS 410-196433/28
Matrix: Water
Analysis Batch: 196433

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.250	0.257		mg/L		103	90 - 110

Lab Sample ID: LCSD 410-196433/29
Matrix: Water
Analysis Batch: 196433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.250	0.259		mg/L		103	90 - 110	1	6

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-195906/34
Matrix: Water
Analysis Batch: 195906

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		S.U.		100	95 - 105

Method: 5210 B-2011 - BOD, 5-Day

Lab Sample ID: SCB 410-195846/4
Matrix: Water
Analysis Batch: 195846

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.667		0.0000010	0.0000010	mg/L			11/12/21 14:48	1

Lab Sample ID: USB 410-195846/2
Matrix: Water
Analysis Batch: 195846

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.0200		0.0000010	0.0000010	mg/L			11/12/21 14:48	1

Lab Sample ID: LCS 410-195846/5
Matrix: Water
Analysis Batch: 195846

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	193		mg/L		97	85 - 115

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63034-1
Project/Site: EMGPRP-31097

GC/MS VOA

Analysis Batch: 194089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	624.1	
410-63034-2	QAQC_TB	Total/NA	Water	624.1	
MB 410-194089/5	Method Blank	Total/NA	Water	624.1	
LCS 410-194089/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-194089/1004	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 194676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	8260C	
410-63034-2	QAQC_TB	Total/NA	Water	8260C	
MB 410-194676/6	Method Blank	Total/NA	Water	8260C	
LCS 410-194676/4	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 196016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	625.1	
MB 410-196016/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-196016/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCS 410-196016/4-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-196016/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
LCSD 410-196016/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 197322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	625.1	196016
MB 410-196016/1-A	Method Blank	Total/NA	Water	625.1	196016
LCS 410-196016/2-A	Lab Control Sample	Total/NA	Water	625.1	196016
LCS 410-196016/4-A	Lab Control Sample	Total/NA	Water	625.1	196016
LCSD 410-196016/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	196016
LCSD 410-196016/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	196016

GC VOA

Prep Batch: 194774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	RSK-175	
MB 410-194774/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-194774/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-194774/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 194778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	RSK-175	194774
MB 410-194774/1-A	Method Blank	Total/NA	Water	RSK-175	194774
LCS 410-194774/2-A	Lab Control Sample	Total/NA	Water	RSK-175	194774
LCSD 410-194774/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	194774

GC Semi VOA

Prep Batch: 195128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	608.3	
MB 410-195128/1-A	Method Blank	Total/NA	Water	608.3	
LCS 410-195128/2-A	Lab Control Sample	Total/NA	Water	608.3	
LCSD 410-195128/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	

Prep Batch: 195129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	608.3	
MB 410-195129/1-A	Method Blank	Total/NA	Water	608.3	
LCS 410-195129/2-A	Lab Control Sample	Total/NA	Water	608.3	
LCSD 410-195129/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	

Analysis Batch: 195651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	608.3	195128
MB 410-195128/1-A	Method Blank	Total/NA	Water	608.3	195128
LCS 410-195128/2-A	Lab Control Sample	Total/NA	Water	608.3	195128
LCSD 410-195128/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	195128

Analysis Batch: 195921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	608.3	195129
MB 410-195129/1-A	Method Blank	Total/NA	Water	608.3	195129
LCS 410-195129/2-A	Lab Control Sample	Total/NA	Water	608.3	195129
LCSD 410-195129/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	195129

HPLC/IC

Analysis Batch: 195984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-195984/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-195984/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-195984/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 194638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	
MB 410-194638/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-194638/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Prep Batch: 194646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	245.1	
MB 410-194646/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-194646/2-A	Lab Control Sample	Total/NA	Water	245.1	

Metals

Analysis Batch: 195521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	194638
410-63034-1	ORS-EFFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	194638
MB 410-194638/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	194638
LCS 410-194638/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	194638

Analysis Batch: 195544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	245.1	194646
MB 410-194646/1-A	Method Blank	Total/NA	Water	245.1	194646
LCS 410-194646/2-A	Lab Control Sample	Total/NA	Water	245.1	194646

General Chemistry

Analysis Batch: 194275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	353.2	

Analysis Batch: 194281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	SM 2330B	

Analysis Batch: 194358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	180.1	
MB 410-194358/3	Method Blank	Total/NA	Water	180.1	
LCS 410-194358/4	Lab Control Sample	Total/NA	Water	180.1	

Analysis Batch: 194394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	2540F-2011	
MB 410-194394/1	Method Blank	Total/NA	Water	2540F-2011	

Analysis Batch: 194412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	2540D-2011	
MB 410-194412/1	Method Blank	Total/NA	Water	2540D-2011	
LCS 410-194412/2	Lab Control Sample	Total/NA	Water	2540D-2011	

Analysis Batch: 195137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	2540C-2011	
MB 410-195137/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 410-195137/2	Lab Control Sample	Total/NA	Water	2540C-2011	

Analysis Batch: 195360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	410.4	
MB 410-195360/4	Method Blank	Total/NA	Water	410.4	
LCS 410-195360/5	Lab Control Sample	Total/NA	Water	410.4	

General Chemistry

Analysis Batch: 195374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	2340C-2011	
MB 410-195374/4	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-195374/5	Lab Control Sample	Total/NA	Water	2340C-2011	

Prep Batch: 195530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	365.1	
MB 410-195530/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-195530/1-A	Lab Control Sample	Total/NA	Water	365.1	

Analysis Batch: 195570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	1664A	
MB 410-195570/1	Method Blank	Total/NA	Water	1664A	
LCS 410-195570/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-195570/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 195846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	5210 B-2011	
SCB 410-195846/4	Method Blank	Total/NA	Water	5210 B-2011	
USB 410-195846/2	Method Blank	Total/NA	Water	5210 B-2011	
LCS 410-195846/5	Lab Control Sample	Total/NA	Water	5210 B-2011	

Analysis Batch: 195904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	2320B-2011	
MB 410-195904/33	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-195904/35	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 195905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	2510B-2011	
MB 410-195905/33	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-195905/36	Lab Control Sample	Total/NA	Water	2510B-2011	

Analysis Batch: 195906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	4500 H+ B-2011	
LCS 410-195906/34	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 196433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	420.4	
MB 410-196433/30	Method Blank	Total/NA	Water	420.4	
LCS 410-196433/28	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-196433/29	Lab Control Sample Dup	Total/NA	Water	420.4	

Prep Batch: 196484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	351.2	

General Chemistry (Continued)

Prep Batch: 196484 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-196484/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-196484/1-A	Lab Control Sample	Total/NA	Water	351.2	
410-63034-1 MS	ORS-EFFLUENT	Total/NA	Groundwater	351.2	
410-63034-1 DU	ORS-EFFLUENT	Total/NA	Groundwater	351.2	

Analysis Batch: 196770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	365.1	195530
MB 410-195530/2-A	Method Blank	Total/NA	Water	365.1	195530
LCS 410-195530/1-A	Lab Control Sample	Total/NA	Water	365.1	195530

Analysis Batch: 196825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63034-1	ORS-EFFLUENT	Total/NA	Groundwater	351.2	196484
MB 410-196484/2-A	Method Blank	Total/NA	Water	351.2	196484
LCS 410-196484/1-A	Lab Control Sample	Total/NA	Water	351.2	196484
LCS 410-196484/1-A	Lab Control Sample	Total/NA	Water	351.2	196484
LCS 410-196484/1-A	Lab Control Sample	Total/NA	Water	351.2	196484
410-63034-1 MS	ORS-EFFLUENT	Total/NA	Groundwater	351.2	196484
410-63034-1 DU	ORS-EFFLUENT	Total/NA	Groundwater	351.2	196484

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Client Sample ID: ORS-EFFLUENT

Date Collected: 11/11/21 09:30
Date Received: 11/11/21 21:39

Lab Sample ID: 410-63034-1

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	194089	11/12/21 20:15	UJML	ELLE
Total/NA	Analysis	8260C		1	194676	11/15/21 13:08	TQ4J	ELLE
Total/NA	Prep	625.1			196016	11/17/21 18:08	QQ3P	ELLE
Total/NA	Analysis	625.1		1	197322	11/22/21 02:48	W6XI	ELLE
Total/NA	Prep	RSK-175			194774	11/15/21 07:00	SE2A	ELLE
Total/NA	Analysis	RSK-175		1	194778	11/15/21 11:07	SE2A	ELLE
Total/NA	Prep	608.3			195129	11/16/21 09:37	BLX5	ELLE
Total/NA	Analysis	608.3		1	195921	11/17/21 09:24	JC94	ELLE
Total/NA	Prep	608.3			195128	11/16/21 09:35	BLX5	ELLE
Total/NA	Analysis	608.3		1	195651	11/17/21 07:35	WN7O	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	195984	11/17/21 23:21	MB4Z	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		500	195984	11/17/21 23:32	MB4Z	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			194638	11/15/21 04:06	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	195521	11/16/21 16:37	UCIG	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			194638	11/15/21 04:06	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		5	195521	11/16/21 16:49	UCIG	ELLE
Total/NA	Prep	245.1			194646	11/15/21 04:53	UAMX	ELLE
Total/NA	Analysis	245.1		1	195544	11/16/21 17:02	UEFS	ELLE
Total/NA	Analysis	1664A		1	195570	11/16/21 19:37	QT6L	ELLE
Total/NA	Analysis	180.1		1	194358	11/12/21 17:50	DI9Q	ELLE
Total/NA	Analysis	2320B-2011		1	195904	11/16/21 21:27	DI9Q	ELLE
Total/NA	Analysis	2340C-2011		2.5	195374	11/15/21 23:06	DI9Q	ELLE
Total/NA	Analysis	2510B-2011		1	195905	11/16/21 21:27	DI9Q	ELLE
Total/NA	Analysis	2540C-2011		1	195137	11/16/21 07:19	UOCA	ELLE
Total/NA	Analysis	2540D-2011		1	194412	11/15/21 01:35	M98K	ELLE
Total/NA	Analysis	2540F-2011		1	194394	11/12/21 19:25	DI9Q	ELLE
Total/NA	Prep	351.2			196484	11/18/21 12:15	UJE2	ELLE
Total/NA	Analysis	351.2		1	196825	11/19/21 09:42	JCG7	ELLE
Total/NA	Analysis	353.2		1	194275	11/17/21 23:32	USJM	ELLE
Total/NA	Prep	365.1			195530	11/16/21 17:47	F8AU	ELLE
Total/NA	Analysis	365.1		1	196770	11/19/21 08:05	JCG7	ELLE
Total/NA	Analysis	410.4		1	195360	11/15/21 22:15	DI9Q	ELLE
Total/NA	Analysis	420.4		10	196433	11/18/21 10:32	P684	ELLE
Total/NA	Analysis	4500 H+ B-2011		1	195906	11/16/21 21:27	DI9Q	ELLE
Total/NA	Analysis	5210 B-2011		1	195846	11/12/21 14:48	F8TI	ELLE
Total/NA	Analysis	SM 2330B		1	194281	11/12/21 14:31	USJM	ELLE

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Client Sample ID: QAQC_TB

Date Collected: 10/12/21 00:00
Date Received: 11/11/21 21:39

Lab Sample ID: 410-63034-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	194089	11/12/21 19:53	UJML	ELLE
Total/NA	Analysis	8260C		1	194676	11/15/21 11:26	TQ4J	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63034-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-22

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
365.1	365.1	Groundwater	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
608.3	608.3	Groundwater	alpha-Chlordane (1C)
608.3	608.3	Groundwater	Chlordane (n.o.s.) (1C)
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl acetate
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile
624.1		Groundwater	Methyl iodide
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	n-Propyl acetate
624.1		Groundwater	N-Propylbenzene
624.1		Groundwater	p-Isopropyltoluene
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl acetate
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Methylnaphthalene
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Methylphenol
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
SM 2330B		Groundwater	Langelier Index

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63034-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
608.3	Organochlorine Pesticides in Water	40CFR136A	ELLE
608.3	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	MCAWW	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C-2011	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2011	Solids, Total Suspended (TSS)	SM	ELLE
2540F-2011	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	MCAWW	ELLE
420.4	Phenolics, Total Recoverable	MCAWW	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2011	BOD, 5-Day	SM	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
608.3	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63034-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-63034-1	ORS-EFFLUENT	Groundwater	11/11/21 09:30	11/11/21 21:39
410-63034-2	QAQC_TB	Water	10/12/21 00:00	11/11/21 21:39

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Acct. # 13438

410-63034 Chain of Custody

Request/Chain of Custody

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.		
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097
Consultant PM:	Courtney Lind	P.O. #: 0172 0030Y070	WAL# 4728
Sampler:	TG	XOM PM:	Elaine Lamm
Bill to :	☐ XOM ☑ Consultant		
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water: Potable	Ground	NPDES	Surface	Other: Trip Blank	Total # of Containers	Analyses Requested: VOCs (624.1) MEK, Acetone, MTBE	200.8, 245.1	625.1_PREC - (MOD) Priority Pollutants SVOCs	608.3_PCB_PREC, 608.3_Pest_PREC	300_ORGFM_28D - (MOD) Chloride/Sulfate	SM5210B_Calc - BOD, 5-Day Only	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved	351.2, 365.1, 410.4	2320B, 2510B, 2540C_SingleDry	420.4 - Phenols	353.2_Nitrite - Nitrogen, Nitrite	2540D_Single_Dry - TSS	SM2540F - Settleable Solids	Turbidity (180.1)	SM2330B - Local Method	2340C - Local Method	Oil&Grease (1664A)	RSK_175 Methane Ethane Ethene	8015C TPH-DRO/ORO Standard TPH-DRO/ORO	TPH-GRO (8015) #10598	Remarks
														H	N					S	S		S					N	H	H	H	H	
ORS-EFFLUENT	11/11/2021	9:30	X					X					28	6	1	2	1	1	1	1	2	2	1	1	1	1	1	1	2	2			
QAQC_TB	10/12/2021	–										X	2	2																			

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

For Lab Use Only: SF #: _____ SCR #: _____

Turnaround Time Requested (TAT) (please check): Standard ☐ Rush ☑

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): (5 day) 4day 72hour 48hour 24hour

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ OTHER

Type III (Reduced non-CLP/NJ Reduced) ☐ Standard with QC summary

TX TRRP-13 ☐

NJ DKQP ☐

NYSDEC Category ☐ A ☐ B

EDD Format(s) Needed: EQuIS and Excel

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Natalie B	11/11/2021	15:50	RPM	11Nov21	1550
2	RPM	11Nov21	2045			
3						
4						
5						

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt 4.8 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-63034-1

Login Number: 63034
List Number: 1
Creator: Cyms, Carolyn M

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-63032-1
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Attn: Matthew Mueller

Authorized for release by:
11/30/2021 12:10:40 PM

Megan Moeller, Client Services Group Leader
(717)556-7261
Megan.Moeller@eurofinset.com

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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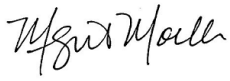

Megan Moeller
Client Services Group Leader
11/30/2021 12:10:40 PM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.
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
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC 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.

GC 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.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-63032-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-63032-1

Receipt
The samples were received on 11/11/2021 9:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.2°C and 5.7°C

Receipt Exceptions
Due to the high TDS result, the Langalier index could not be calculated.

RECEIVING-WATER-002 (410-63032-2)

GC/MS VOA
Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: ORS-INFLUENT (410-63032-1) and RECEIVING-WATER-002 (410-63032-2). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

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

GC/MS Semi VOA
Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 410-198279 recovered above the upper control limit for Benzoic acid, Butylbenzylphthalate, Di-n-octyl phthalate, 4,6-Dinitro-2-methylphenol and 2,4-Dinitrotoluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 625.1_PREC: The laboratory control sample (LCS) for preparation batch 410-196248 and analytical batch 410-198279 recovered outside control limits for the following analytes: Benzidine. The associated sample(s) was re-prepared and/or re-analyzed within holding time with similar results. The first set of data has been reported.

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

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

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

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

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

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

HPLC/IC
Method 300_ORGFM_28D: The instrument blank for analytical batch 410-198728 contained Sulfate greater than the method detection limit (MDL), and were not reanalyzed because the concentration was less than the RL. The data have been qualified and reported.

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

Job ID: 410-63032-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Metals

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

General Chemistry

Method 410.4: The following sample was diluted due to the nature of the sample matrix: RECEIVING-WATER-002 (410-63032-2). Elevated reporting limits (RLs) are provided.

Method 410.4: The sample duplicate (DUP) precision for analytical batch 410-197657 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 420.4: The following sample was diluted due to the nature of the sample matrix: RECEIVING-WATER-002 (410-63032-2). 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.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63032-1

Client Sample ID: ORS-INFLUENT

Lab Sample ID: 410-63032-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.71	J	1.0	0.20	ug/L	1		624.1	Total/NA
1,1-Dichloroethene	1.1		1.0	0.20	ug/L	1		624.1	Total/NA
1,2,4-Trimethylbenzene	19		1.0	0.20	ug/L	1		624.1	Total/NA
1,2-Dichlorobenzene	0.15	J	1.0	0.10	ug/L	1		624.1	Total/NA
1,2-Dichloroethane	8.0		1.0	0.30	ug/L	1		624.1	Total/NA
1,2-Dichloroethene (total)	60		1.0	0.20	ug/L	1		624.1	Total/NA
1,3,5-Trimethylbenzene	8.3		1.0	0.20	ug/L	1		624.1	Total/NA
2-Chloro-1,3-butadiene	2.0		1.0	0.50	ug/L	1		624.1	Total/NA
Benzene	300		1.0	0.20	ug/L	1		624.1	Total/NA
Chlorobenzene	0.82	J	1.0	0.20	ug/L	1		624.1	Total/NA
Chloroethane	0.37	J	1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	58		1.0	0.20	ug/L	1		624.1	Total/NA
Cyclohexane	78		1.0	0.30	ug/L	1		624.1	Total/NA
Ethylbenzene	17		1.0	0.20	ug/L	1		624.1	Total/NA
Isopropylbenzene	7.6		2.0	0.50	ug/L	1		624.1	Total/NA
m&p-Xylene	65		1.0	0.30	ug/L	1		624.1	Total/NA
Naphthalene	11		1.0	0.20	ug/L	1		624.1	Total/NA
n-Butylbenzene	1.0		1.0	0.20	ug/L	1		624.1	Total/NA
n-Hexane	9.2		1.0	0.20	ug/L	1		624.1	Total/NA
N-Propylbenzene	7.3		1.0	0.20	ug/L	1		624.1	Total/NA
o-Xylene	4.7		1.0	0.20	ug/L	1		624.1	Total/NA
p-Isopropyltoluene	0.65	J	1.0	0.20	ug/L	1		624.1	Total/NA
sec-Butylbenzene	1.2		1.0	0.20	ug/L	1		624.1	Total/NA
t-Butyl alcohol	18	J	20	6.0	ug/L	1		624.1	Total/NA
tert-Butylbenzene	0.27	J	1.0	0.20	ug/L	1		624.1	Total/NA
Tetrachloroethene	240		1.0	0.30	ug/L	1		624.1	Total/NA
Toluene	6.8		1.0	0.20	ug/L	1		624.1	Total/NA
trans-1,2-Dichloroethene	1.9		1.0	0.20	ug/L	1		624.1	Total/NA
Trichloroethene	130		1.0	0.20	ug/L	1		624.1	Total/NA
Vinyl chloride	6.8		1.0	0.30	ug/L	1		624.1	Total/NA
Xylenes, Total	70		1.0	0.20	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	23		1.0	0.20	ug/L	1		8260C	Total/NA
Acetone	8.8	J	20	0.70	ug/L	1		8260C	Total/NA
1-Methylnaphthalene	5.5		5.3	0.37	ug/L	1		625.1	Total/NA
2-Methylnaphthalene	3.6	J	5.3	0.21	ug/L	1		625.1	Total/NA
Acenaphthene	0.30	J	5.3	0.26	ug/L	1		625.1	Total/NA
Naphthalene	6.4		2.1	0.32	ug/L	1		625.1	Total/NA
Phenanthrene	0.22	J	5.3	0.21	ug/L	1		625.1	Total/NA
Phenol	3.2		1.1	0.53	ug/L	1		625.1	Total/NA
GRO (1C)	2100		50	23	ug/L	1		8015C	Total/NA
Ethane (1C)	1.6	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Ethene (1C)	1.1	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane (1C) - DL	2200		50	30	ug/L	10		RSK-175	Total/NA
DRO (C10-C28) (1C)	0.47		0.19	0.071	mg/L	1		8015C	Total/NA
Sulfate	140		50	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	600		200	100	mg/L	500		EPA 300.0 R2.1	Total/NA
Arsenic	3.6		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	250		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	150000		1000	740	ug/L	10		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: ORS-INFLUENT (Continued)

Lab Sample ID: 410-63032-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	1.7		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	0.68	J	1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	5000		50	23	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	47000		50	10	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2400		20	6.3	ug/L	10		200.8 Rev 5.4	Total Recoverable
Nickel	3.4		1.0	0.60	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	6500		200	110	ug/L	1		200.8 Rev 5.4	Total Recoverable
Selenium	1.2		1.0	0.28	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	410000		2000	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	2.2	J	5.3	1.5	mg/L	1		1664A	Total/NA
Turbidity	70		2.0	2.0	NTU	2		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	370		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	570		50	15	mg/L	5		2340C-2011	Total/NA
Specific Conductance	2700	B	5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	1600		240	96	mg/L	1		2540C-2011	Total/NA
Total Suspended Solids	11		3.0	1.0	mg/L	1		2540D-2011	Total/NA
Total Kjeldahl Nitrogen	1.7	F1	1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.99		0.10	0.040	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	40	J	75	25	mg/L	1		410.4	Total/NA
pH	7.4	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	20.7	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Biochemical Oxygen Demand	2.1		2.0	2.0	mg/L	1		5210 B-2011	Total/NA
Langelier Index	0.54				LangSU	1		SM 2330B	Total/NA

Client Sample ID: RECEIVING-WATER-002

Lab Sample ID: 410-63032-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.3	J	20	0.70	ug/L	1		8260C	Total/NA
Methane (1C)	8.9		5.0	3.0	ug/L	1		RSK-175	Total/NA
DRO (C10-C28) (1C)	0.089	J	0.19	0.071	mg/L	1		8015C	Total/NA
Sulfate	1800		1000	300	mg/L	1000		EPA 300.0 R2.1	Total/NA
Chloride	11000		2000	1000	mg/L	5000		EPA 300.0 R2.1	Total/NA
Aluminum	92		25	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Arsenic	2.1		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	25	^2	2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	280000		1000	740	ug/L	10		200.8 Rev 5.4	Total Recoverable
Chromium	0.64	J	2.0	0.33	ug/L	1		200.8 Rev 5.4	Total Recoverable
Cobalt	0.23	J	0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	4.4		1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: RECEIVING-WATER-002 (Continued)

Lab Sample ID: 410-63032-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	350		50	23	ug/L	1		200.8 Rev 5.4	Total Recoverable
Lead	2.0		0.50	0.071	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	790000		500	100	ug/L	10		200.8 Rev 5.4	Total Recoverable
Manganese	85		2.0	0.63	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	3.0		1.0	0.60	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	250000		2000	1100	ug/L	10		200.8 Rev 5.4	Total Recoverable
Selenium	0.29	J	1.0	0.28	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	7800000	^2	20000	5000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Vanadium	2.0	J	4.0	0.79	ug/L	1		200.8 Rev 5.4	Total Recoverable
Zinc	14		10	6.2	ug/L	1		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	1.9	J	5.3	1.5	mg/L	1		1664A	Total/NA
Turbidity	2.7		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	120		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	3600		200	60	mg/L	20		2340C-2011	Total/NA
Specific Conductance	24000	B	5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	20000		2400	960	mg/L	1		2540C-2011	Total/NA
Total Suspended Solids	7.4		3.0	1.0	mg/L	1		2540D-2011	Total/NA
Total Kjeldahl Nitrogen	0.79	J	1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.37		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.44		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	310	J	750	250	mg/L	10		410.4	Total/NA
pH	7.5	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	20.6	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA

Client Sample ID: QAQC_TB

Lab Sample ID: 410-63032-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63032-1

Client Sample ID: ORS-INFLUENT
Date Collected: 11/11/21 09:15
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-1
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,1-Dichloroethane	**0.71**	**J**	1.0	0.20	ug/L			11/12/21 21:21	1
1,1-Dichloroethene	**1.1**		1.0	0.20	ug/L			11/12/21 21:21	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,2,4-Trimethylbenzene	**19**		1.0	0.20	ug/L			11/12/21 21:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/12/21 21:21	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,2-Dichlorobenzene	**0.15**	**J**	1.0	0.10	ug/L			11/12/21 21:21	1
1,2-Dichloroethane	**8.0**		1.0	0.30	ug/L			11/12/21 21:21	1
1,2-Dichloroethene (total)	**60**		1.0	0.20	ug/L			11/12/21 21:21	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,3,5-Trimethylbenzene	**8.3**		1.0	0.20	ug/L			11/12/21 21:21	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 21:21	1
1,4-Dioxane	ND		50	15	ug/L			11/12/21 21:21	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/12/21 21:21	1
2-Chloro-1,3-butadiene	**2.0**		1.0	0.50	ug/L			11/12/21 21:21	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			11/12/21 21:21	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/12/21 21:21	1
2-Hexanone	ND		2.0	0.50	ug/L			11/12/21 21:21	1
2-Propanol	ND		20	8.0	ug/L			11/12/21 21:21	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/12/21 21:21	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/12/21 21:21	1
Acetonitrile	ND		50	14	ug/L			11/12/21 21:21	1
Benzene	**300**		1.0	0.20	ug/L			11/12/21 21:21	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/12/21 21:21	1
Bromobenzene	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Bromoform	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Bromomethane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Butyl acetate	ND		5.0	0.60	ug/L			11/12/21 21:21	1
Carbon disulfide	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Chlorobenzene	**0.82**	**J**	1.0	0.20	ug/L			11/12/21 21:21	1
Chloroethane	**0.37**	**J**	1.0	0.20	ug/L			11/12/21 21:21	1
Chloroform	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Chloromethane	ND		1.0	0.30	ug/L			11/12/21 21:21	1
cis-1,2-Dichloroethene	**58**		1.0	0.20	ug/L			11/12/21 21:21	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Cyclohexane	**78**		1.0	0.30	ug/L			11/12/21 21:21	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Dibromomethane	ND		1.0	0.20	ug/L			11/12/21 21:21	1

Client Sample ID: ORS-INFLUENT
Date Collected: 11/11/21 09:15
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-1
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			11/12/21 21:21	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			11/12/21 21:21	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/12/21 21:21	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Ethylbenzene	**17**		1.0	0.20	ug/L			11/12/21 21:21	1
Freon 113	ND		1.0	0.30	ug/L			11/12/21 21:21	1
Freon 123a	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Isobutyl alcohol	ND		50	11	ug/L			11/12/21 21:21	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/12/21 21:21	1
Isopropylbenzene	**7.6**		2.0	0.50	ug/L			11/12/21 21:21	1
m&p-Xylene	**65**		1.0	0.30	ug/L			11/12/21 21:21	1
Methacrylonitrile	ND		10	2.0	ug/L			11/12/21 21:21	1
Methyl iodide	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/12/21 21:21	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/12/21 21:21	1
Naphthalene	**11**		1.0	0.20	ug/L			11/12/21 21:21	1
n-Butylbenzene	**1.0**		1.0	0.20	ug/L			11/12/21 21:21	1
n-Heptane	ND		1.0	0.30	ug/L			11/12/21 21:21	1
n-Hexane	**9.2**		1.0	0.20	ug/L			11/12/21 21:21	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/12/21 21:21	1
N-Propylbenzene	**7.3**		1.0	0.20	ug/L			11/12/21 21:21	1
o-Xylene	**4.7**		1.0	0.20	ug/L			11/12/21 21:21	1
p-Isopropyltoluene	**0.65**	**J**	1.0	0.20	ug/L			11/12/21 21:21	1
Propionitrile	ND		20	4.0	ug/L			11/12/21 21:21	1
sec-Butylbenzene	**1.2**		1.0	0.20	ug/L			11/12/21 21:21	1
Styrene	ND		1.0	0.20	ug/L			11/12/21 21:21	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/12/21 21:21	1
t-Butyl alcohol	**18**	**J**	20	6.0	ug/L			11/12/21 21:21	1
tert-Butylbenzene	**0.27**	**J**	1.0	0.20	ug/L			11/12/21 21:21	1
Tetrachloroethene	**240**		1.0	0.30	ug/L			11/12/21 21:21	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/12/21 21:21	1
Toluene	**6.8**		1.0	0.20	ug/L			11/12/21 21:21	1
trans-1,2-Dichloroethene	**1.9**		1.0	0.20	ug/L			11/12/21 21:21	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/12/21 21:21	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/12/21 21:21	1
Trichloroethene	**130**		1.0	0.20	ug/L			11/12/21 21:21	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/12/21 21:21	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/12/21 21:21	1
Vinyl chloride	**6.8**		1.0	0.30	ug/L			11/12/21 21:21	1
Xylenes, Total	**70**		1.0	0.20	ug/L			11/12/21 21:21	1
Acrolein	ND		10	3.0	ug/L			11/12/21 21:21	1
Acrylonitrile	ND		1.0	0.30	ug/L			11/12/21 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*11/12/21 21:21*	*1*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*11/12/21 21:21*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*11/12/21 21:21*	*1*

Client Sample ID: ORS-INFLUENT
Date Collected: 11/11/21 09:15
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-1
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*60 - 140*		*11/12/21 21:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**23**		1.0	0.20	ug/L			11/15/21 12:28	1
Acetone	**8.8**	**J**	20	0.70	ug/L			11/15/21 12:28	1
2-Butanone	ND		10	0.50	ug/L			11/15/21 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*11/15/21 12:28*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*11/15/21 12:28*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/15/21 12:28*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/15/21 12:28*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
1,2,4,5-Tetrachlorobenzene	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
1,2,4-Trichlorobenzene	ND		1.1	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
1,2-Dichlorobenzene	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
1,2-Diphenylhydrazine	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
1,3-Dichlorobenzene	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
1,4-Dichlorobenzene	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
1,4-Dioxane	ND		5.3	2.1	ug/L		11/18/21 08:28	11/24/21 05:10	1
1-Methylnaphthalene	**5.5**		5.3	0.37	ug/L		11/18/21 08:28	11/24/21 05:10	1
1-Methylphenanthrene	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2,2'-oxybis[1-chloropropane]	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2,3,4,6-Tetrachlorophenol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2,3-Dichloroaniline	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2,4,5-Trichlorophenol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2,4,6-Trichlorophenol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2,4-Dichlorophenol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2,4-Dimethylphenol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2,4-Dinitrophenol	ND		11	2.1	ug/L		11/18/21 08:28	11/24/21 05:10	1
2,4-Dinitrotoluene	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2,6-Dichlorophenol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2,6-Dinitrotoluene	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2-Chloronaphthalene	ND		5.3	1.1	ug/L		11/18/21 08:28	11/24/21 05:10	1
2-Chlorophenol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2-Methylnaphthalene	**3.6**	**J**	5.3	0.21	ug/L		11/18/21 08:28	11/24/21 05:10	1
2-Methylphenol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2-Nitroaniline	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
2-Nitrophenol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
3,3'-Dichlorobenzidine	ND		5.3	0.84	ug/L		11/18/21 08:28	11/24/21 05:10	1
3-Nitroaniline	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
4,6-Dinitro-2-methylphenol	ND		11	2.1	ug/L		11/18/21 08:28	11/24/21 05:10	1
4-Bromophenyl-phenylether	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
4-Chloro-3-methylphenol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
4-Chloroaniline	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
4-Chlorophenyl-phenylether	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63032-1

Client Sample ID: ORS-INFLUENT
Date Collected: 11/11/21 09:15
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-1
Matrix: Groundwater

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
4-Nitroaniline	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
4-Nitrophenol	ND		5.3	0.95	ug/L		11/18/21 08:28	11/24/21 05:10	1
Acenaphthene	**0.30**	**J**	5.3	0.26	ug/L		11/18/21 08:28	11/24/21 05:10	1
Acenaphthylene	ND		5.3	0.21	ug/L		11/18/21 08:28	11/24/21 05:10	1
Acetophenone	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Aniline	ND	*1	5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Anthracene	ND		5.3	0.26	ug/L		11/18/21 08:28	11/24/21 05:10	1
a-Terpineol	ND		5.3	0.63	ug/L		11/18/21 08:28	11/24/21 05:10	1
Benzidine	ND	*-	63	6.3	ug/L		11/18/21 08:28	11/24/21 05:10	1
Benzo[a]anthracene	ND		5.3	0.26	ug/L		11/18/21 08:28	11/24/21 05:10	1
Benzo[a]pyrene	ND		5.3	0.26	ug/L		11/18/21 08:28	11/24/21 05:10	1
Benzo[b]fluoranthene	ND		5.3	0.26	ug/L		11/18/21 08:28	11/24/21 05:10	1
Benzo[g,h,i]perylene	ND		5.3	0.32	ug/L		11/18/21 08:28	11/24/21 05:10	1
Benzo[k]fluoranthene	ND		5.3	0.21	ug/L		11/18/21 08:28	11/24/21 05:10	1
Benzoic acid	ND		32	4.2	ug/L		11/18/21 08:28	11/24/21 05:10	1
Benzyl alcohol	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Bis(2-chloroethoxy)methane	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Bis(2-chloroethyl)ether	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Bis(2-ethylhexyl) phthalate	ND		5.3	1.1	ug/L		11/18/21 08:28	11/24/21 05:10	1
Butylbenzylphthalate	ND		5.3	1.1	ug/L		11/18/21 08:28	11/24/21 05:10	1
Carbazole	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Chrysene	ND		5.3	0.21	ug/L		11/18/21 08:28	11/24/21 05:10	1
Dibenz(a,h)anthracene	ND		5.3	0.32	ug/L		11/18/21 08:28	11/24/21 05:10	1
Dibenzofuran	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Diethylphthalate	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Dimethylphthalate	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Di-n-butyl phthalate	ND		5.3	1.1	ug/L		11/18/21 08:28	11/24/21 05:10	1
Di-n-octyl phthalate	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Diphenyl ether	ND		5.3	0.79	ug/L		11/18/21 08:28	11/24/21 05:10	1
Fluoranthene	ND		5.3	0.21	ug/L		11/18/21 08:28	11/24/21 05:10	1
Fluorene	ND		5.3	0.21	ug/L		11/18/21 08:28	11/24/21 05:10	1
Hexachlorobenzene	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Hexachlorobutadiene	ND		2.1	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Hexachlorocyclopentadiene	ND		16	3.2	ug/L		11/18/21 08:28	11/24/21 05:10	1
Hexachloroethane	ND		2.1	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Indeno[1,2,3-cd]pyrene	ND		5.3	0.32	ug/L		11/18/21 08:28	11/24/21 05:10	1
Isophorone	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Naphthalene	**6.4**		2.1	0.32	ug/L		11/18/21 08:28	11/24/21 05:10	1
n-Decane	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
n-Docosane	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
n-Eicosane	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
n-Hexadecane	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Nitrobenzene	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
N-Nitrosodiethylamine	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
N-Nitrosodimethylamine	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
N-Nitrosodi-n-butylamine	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
N-Nitrosodi-n-propylamine	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
N-Nitrosodiphenylamine	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1

Client Sample ID: ORS-INFLUENT
Date Collected: 11/11/21 09:15
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-1
Matrix: Groundwater

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
n-Octadecane	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
n-Tetradecane	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
o-Toluidine	ND		5.3	1.1	ug/L		11/18/21 08:28	11/24/21 05:10	1
Pentachlorobenzene	ND		5.3	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Pentachlorophenol	ND		5.3	0.84	ug/L		11/18/21 08:28	11/24/21 05:10	1
Phenanthrene	**0.22**	**J**	5.3	0.21	ug/L		11/18/21 08:28	11/24/21 05:10	1
Phenol	**3.2**		1.1	0.53	ug/L		11/18/21 08:28	11/24/21 05:10	1
Pyrene	ND		5.3	0.26	ug/L		11/18/21 08:28	11/24/21 05:10	1
Pyridine	ND	*+	5.3	0.84	ug/L		11/18/21 08:28	11/24/21 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*63*		*23 - 140*	*11/18/21 08:28*	*11/24/21 05:10*	*1*
2-Fluorobiphenyl (Surr)	*79*		*36 - 101*	*11/18/21 08:28*	*11/24/21 05:10*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 77*	*11/18/21 08:28*	*11/24/21 05:10*	*1*
Nitrobenzene-d5 (Surr)	*84*		*49 - 106*	*11/18/21 08:28*	*11/24/21 05:10*	*1*
Phenol-d5 (Surr)	*41*		*10 - 59*	*11/18/21 08:28*	*11/24/21 05:10*	*1*
p-Terphenyl-d14 (Surr)	*89*		*26 - 119*	*11/18/21 08:28*	*11/24/21 05:10*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	**2100**		50	23	ug/L			11/15/21 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*109*		*63 - 135*		*11/15/21 16:09*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	**1.6**	**J**	5.0	1.0	ug/L		11/15/21 07:00	11/15/21 12:08	1
Ethene (1C)	**1.1**	**J**	5.0	1.0	ug/L		11/15/21 07:00	11/15/21 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*87*		*28 - 130*	*11/15/21 07:00*	*11/15/21 12:08*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (1C)	**2200**		50	30	ug/L		11/16/21 07:42	11/16/21 10:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*87*		*28 - 130*	*11/16/21 07:42*	*11/16/21 10:33*	*10*

Method: 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	ND		0.011	0.0053	ug/L		11/16/21 09:35	11/17/21 08:36	1
alpha-BHC (1C)	ND		0.032	0.013	ug/L		11/16/21 09:35	11/17/21 08:36	1
beta-BHC (1C)	ND		0.11	0.048	ug/L		11/16/21 09:35	11/17/21 08:36	1
alpha-Chlordane (1C)	ND		0.011	0.0063	ug/L		11/16/21 09:35	11/17/21 08:36	1
delta-BHC (1C)	ND		0.032	0.012	ug/L		11/16/21 09:35	11/17/21 08:36	1
Dieldrin (1C)	ND		0.021	0.0084	ug/L		11/16/21 09:35	11/17/21 08:36	1
Endosulfan I (1C)	ND		0.011	0.0032	ug/L		11/16/21 09:35	11/17/21 08:36	1
Endosulfan II (1C)	ND		0.021	0.010	ug/L		11/16/21 09:35	11/17/21 08:36	1

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 410-63032-1
Date Collected: 11/11/21 09:15
Matrix: Groundwater
Date Received: 11/11/21 21:34

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate (1C)	ND		0.021	0.011	ug/L		11/16/21 09:35	11/17/21 08:36	1
Endrin (1C)	ND		0.11	0.0095	ug/L		11/16/21 09:35	11/17/21 08:36	1
Endrin aldehyde (1C)	ND		0.021	0.0096	ug/L		11/16/21 09:35	11/17/21 08:36	1
gamma-BHC (Lindane) (1C)	ND		0.011	0.0055	ug/L		11/16/21 09:35	11/17/21 08:36	1
Heptachlor (1C)	ND		0.011	0.0084	ug/L		11/16/21 09:35	11/17/21 08:36	1
Heptachlor epoxide (1C)	ND		0.11	0.0053	ug/L		11/16/21 09:35	11/17/21 08:36	1
4,4'-DDD (1C)	ND		0.021	0.0095	ug/L		11/16/21 09:35	11/17/21 08:36	1
4,4'-DDE (1C)	ND		0.042	0.021	ug/L		11/16/21 09:35	11/17/21 08:36	1
4,4'-DDT (1C)	ND		0.021	0.011	ug/L		11/16/21 09:35	11/17/21 08:36	1
Toxaphene (1C)	ND		1.1	0.37	ug/L		11/16/21 09:35	11/17/21 08:36	1
Chlordane (n.o.s.) (1C)	ND		0.53	0.24	ug/L		11/16/21 09:35	11/17/21 08:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*56*		*32 - 149*	*11/16/21 09:35*	*11/17/21 08:36*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*50*		*32 - 149*	*11/16/21 09:35*	*11/17/21 08:36*	*1*
Tetrachloro-m-xylene (1C)	*56*		*29 - 129*	*11/16/21 09:35*	*11/17/21 08:36*	*1*
Tetrachloro-m-xylene (2C)	*49*		*29 - 129*	*11/16/21 09:35*	*11/17/21 08:36*	*1*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.53	0.10	ug/L		11/16/21 09:37	11/17/21 10:16	1
PCB-1221 (1C)	ND		0.53	0.22	ug/L		11/16/21 09:37	11/17/21 10:16	1
PCB-1232 (1C)	ND		0.53	0.14	ug/L		11/16/21 09:37	11/17/21 10:16	1
PCB-1242 (1C)	ND		0.53	0.21	ug/L		11/16/21 09:37	11/17/21 10:16	1
PCB-1248 (1C)	ND		0.53	0.22	ug/L		11/16/21 09:37	11/17/21 10:16	1
PCB-1254 (1C)	ND		0.53	0.17	ug/L		11/16/21 09:37	11/17/21 10:16	1
PCB-1260 (1C)	ND		0.53	0.083	ug/L		11/16/21 09:37	11/17/21 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*71*		*10 - 127*	*11/16/21 09:37*	*11/17/21 10:16*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*72*		*10 - 127*	*11/16/21 09:37*	*11/17/21 10:16*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*80*		*18 - 115*	*11/16/21 09:37*	*11/17/21 10:16*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*70*		*18 - 115*	*11/16/21 09:37*	*11/17/21 10:16*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	**0.47**		0.19	0.071	mg/L		11/17/21 21:00	11/18/21 14:24	1
>C28-C35 (1C)	ND		0.19	0.071	mg/L		11/17/21 21:00	11/18/21 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*74*		*27 - 143*	*11/17/21 21:00*	*11/18/21 14:24*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**140**		50	15	mg/L			11/24/21 18:04	50
Chloride	**600**		200	100	mg/L			11/24/21 18:15	500

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		11/17/21 16:00	11/20/21 03:02	1
Aluminum	ND		25	20	ug/L		11/17/21 16:00	11/20/21 03:02	1

Client Sample ID: ORS-INFLUENT
Date Collected: 11/11/21 09:15
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-1
Matrix: Groundwater

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		2.0	0.68	ug/L		11/17/21 16:00	11/20/21 03:02	1
Barium	250		2.0	0.75	ug/L		11/17/21 16:00	11/20/21 03:02	1
Beryllium	ND		0.50	0.12	ug/L		11/17/21 16:00	11/29/21 09:37	1
Cadmium	ND		0.50	0.15	ug/L		11/17/21 16:00	11/20/21 03:02	1
Calcium	150000		1000	740	ug/L		11/17/21 16:00	11/24/21 18:10	10
Chromium	ND		2.0	0.33	ug/L		11/17/21 16:00	11/20/21 03:02	1
Cobalt	1.7		0.50	0.16	ug/L		11/17/21 16:00	11/20/21 03:02	1
Copper	0.68	J	1.0	0.36	ug/L		11/17/21 16:00	11/20/21 03:02	1
Iron	5000		50	23	ug/L		11/17/21 16:00	11/20/21 03:02	1
Lead	ND		0.50	0.071	ug/L		11/17/21 16:00	11/20/21 03:02	1
Magnesium	47000		50	10	ug/L		11/17/21 16:00	11/20/21 03:02	1
Manganese	2400		20	6.3	ug/L		11/17/21 16:00	11/24/21 18:10	10
Nickel	3.4		1.0	0.60	ug/L		11/17/21 16:00	11/20/21 03:02	1
Potassium	6500		200	110	ug/L		11/17/21 16:00	11/20/21 03:02	1
Selenium	1.2		1.0	0.28	ug/L		11/17/21 16:00	11/20/21 03:02	1
Silver	ND		0.50	0.17	ug/L		11/17/21 16:00	11/20/21 03:02	1
Sodium	410000		2000	500	ug/L		11/17/21 16:00	11/24/21 18:10	10
Thallium	ND		0.50	0.13	ug/L		11/17/21 16:00	11/20/21 03:02	1
Vanadium	ND		4.0	0.79	ug/L		11/17/21 16:00	11/20/21 03:02	1
Zinc	ND		10	6.2	ug/L		11/17/21 16:00	11/20/21 03:02	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/17/21 14:55	11/17/21 20:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	2.2	J	5.3	1.5	mg/L			11/16/21 19:37	1
Turbidity	70		2.0	2.0	NTU			11/12/21 17:50	2
Total Alkalinity as CaCO3 to pH 4.5	370		8.0	2.6	mg/L			11/16/21 22:28	1
Total Hardness	570		50	15	mg/L			11/16/21 00:12	5
Specific Conductance	2700	B	5.0	1.7	umhos/cm			11/16/21 22:28	1
Total Dissolved Solids	1600		240	96	mg/L			11/16/21 07:19	1
Total Suspended Solids	11		3.0	1.0	mg/L			11/15/21 01:35	1
Settleable Solids	ND		0.10	0.10	mL/L			11/12/21 19:25	1
Total Kjeldahl Nitrogen	1.7	F1	1.0	0.50	mg/L		11/29/21 13:00	11/30/21 09:46	1
Nitrate as N	0.99		0.10	0.040	mg/L			11/17/21 23:32	1
Total Phosphorus as PO4	ND	F1	0.31	0.25	mg/L		11/19/21 20:09	11/22/21 12:37	1
Chemical Oxygen Demand	40	J	75	25	mg/L			11/17/21 22:34	1
Phenols, Total	ND		0.020	0.010	mg/L			11/23/21 11:24	1
pH	7.4	HF	0.01	0.01	S.U.			11/16/21 22:28	1
Temperature	20.7	HF	0.01	0.01	Degrees C			11/16/21 22:28	1
Biochemical Oxygen Demand	2.1		2.0	2.0	mg/L			11/12/21 14:48	1
Langelier Index	0.54				LangSU			11/29/21 14:31	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63032-1

Client Sample ID: RECEIVING-WATER-002
Date Collected: 11/11/21 10:00
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-2
Matrix: Surface Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/12/21 20:59	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/12/21 20:59	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/12/21 20:59	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
1,4-Dioxane	ND		50	15	ug/L			11/12/21 20:59	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/12/21 20:59	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/12/21 20:59	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			11/12/21 20:59	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/12/21 20:59	1
2-Hexanone	ND		2.0	0.50	ug/L			11/12/21 20:59	1
2-Propanol	ND		20	8.0	ug/L			11/12/21 20:59	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/12/21 20:59	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/12/21 20:59	1
Acetonitrile	ND		50	14	ug/L			11/12/21 20:59	1
Benzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/12/21 20:59	1
Bromobenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Bromoform	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Bromomethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Butyl acetate	ND		5.0	0.60	ug/L			11/12/21 20:59	1
Carbon disulfide	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Chloroethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Chloroform	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Chloromethane	ND		1.0	0.30	ug/L			11/12/21 20:59	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Cyclohexane	ND		1.0	0.30	ug/L			11/12/21 20:59	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Dibromomethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1

Client Sample ID: RECEIVING-WATER-002
Date Collected: 11/11/21 10:00
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-2
Matrix: Surface Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			11/12/21 20:59	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/12/21 20:59	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Freon 113	ND		1.0	0.30	ug/L			11/12/21 20:59	1
Freon 123a	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Isobutyl alcohol	ND		50	11	ug/L			11/12/21 20:59	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/12/21 20:59	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/12/21 20:59	1
m&p-Xylene	ND		1.0	0.30	ug/L			11/12/21 20:59	1
Methacrylonitrile	ND		10	2.0	ug/L			11/12/21 20:59	1
Methyl iodide	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/12/21 20:59	1
Naphthalene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
n-Heptane	ND		1.0	0.30	ug/L			11/12/21 20:59	1
n-Hexane	ND		1.0	0.20	ug/L			11/12/21 20:59	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/12/21 20:59	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
o-Xylene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Propionitrile	ND		20	4.0	ug/L			11/12/21 20:59	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Styrene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/12/21 20:59	1
t-Butyl alcohol	ND		20	6.0	ug/L			11/12/21 20:59	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/12/21 20:59	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/12/21 20:59	1
Toluene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/12/21 20:59	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/12/21 20:59	1
Trichloroethene	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/12/21 20:59	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/12/21 20:59	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/12/21 20:59	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/12/21 20:59	1
Acrolein	ND		10	3.0	ug/L			11/12/21 20:59	1
Acrylonitrile	ND		1.0	0.30	ug/L			11/12/21 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*		*11/12/21 20:59*	*1*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*11/12/21 20:59*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*		*11/12/21 20:59*	*1*

Client Sample ID: RECEIVING-WATER-002
Date Collected: 11/11/21 10:00
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-2
Matrix: Surface Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*60 - 140*		*11/12/21 20:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/15/21 12:48	1
Acetone	**4.3**	**J**	20	0.70	ug/L			11/15/21 12:48	1
2-Butanone	ND		10	0.50	ug/L			11/15/21 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/15/21 12:48*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*11/15/21 12:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/15/21 12:48*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/15/21 12:48*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
1,2,4,5-Tetrachlorobenzene	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
1,2,4-Trichlorobenzene	ND		1.1	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
1,2-Dichlorobenzene	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
1,2-Diphenylhydrazine	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
1,3-Dichlorobenzene	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
1,4-Dichlorobenzene	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
1,4-Dioxane	ND		5.4	2.2	ug/L		11/18/21 08:28	11/24/21 05:31	1
1-Methylnaphthalene	ND		5.4	0.38	ug/L		11/18/21 08:28	11/24/21 05:31	1
1-Methylphenanthrene	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2,2'-oxybis[1-chloropropane]	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2,3,4,6-Tetrachlorophenol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2,3-Dichloroaniline	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2,4,5-Trichlorophenol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2,4,6-Trichlorophenol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2,4-Dichlorophenol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2,4-Dimethylphenol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2,4-Dinitrophenol	ND		11	2.2	ug/L		11/18/21 08:28	11/24/21 05:31	1
2,4-Dinitrotoluene	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2,6-Dichlorophenol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2,6-Dinitrotoluene	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2-Chloronaphthalene	ND		5.4	1.1	ug/L		11/18/21 08:28	11/24/21 05:31	1
2-Chlorophenol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2-Methylnaphthalene	ND		5.4	0.22	ug/L		11/18/21 08:28	11/24/21 05:31	1
2-Methylphenol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2-Nitroaniline	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
2-Nitrophenol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
3,3'-Dichlorobenzidine	ND		5.4	0.86	ug/L		11/18/21 08:28	11/24/21 05:31	1
3-Nitroaniline	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
4,6-Dinitro-2-methylphenol	ND		11	2.2	ug/L		11/18/21 08:28	11/24/21 05:31	1
4-Bromophenyl-phenylether	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
4-Chloro-3-methylphenol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
4-Chloroaniline	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
4-Chlorophenyl-phenylether	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63032-1

Client Sample ID: RECEIVING-WATER-002
Date Collected: 11/11/21 10:00
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-2
Matrix: Surface Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
4-Nitroaniline	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
4-Nitrophenol	ND		5.4	0.97	ug/L		11/18/21 08:28	11/24/21 05:31	1
Acenaphthene	ND		5.4	0.27	ug/L		11/18/21 08:28	11/24/21 05:31	1
Acenaphthylene	ND		5.4	0.22	ug/L		11/18/21 08:28	11/24/21 05:31	1
Acetophenone	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Aniline	ND	*1	5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Anthracene	ND		5.4	0.27	ug/L		11/18/21 08:28	11/24/21 05:31	1
a-Terpineol	ND		5.4	0.65	ug/L		11/18/21 08:28	11/24/21 05:31	1
Benzidine	ND	*-	65	6.5	ug/L		11/18/21 08:28	11/24/21 05:31	1
Benzo[a]anthracene	ND		5.4	0.27	ug/L		11/18/21 08:28	11/24/21 05:31	1
Benzo[a]pyrene	ND		5.4	0.27	ug/L		11/18/21 08:28	11/24/21 05:31	1
Benzo[b]fluoranthene	ND		5.4	0.27	ug/L		11/18/21 08:28	11/24/21 05:31	1
Benzo[g,h,i]perylene	ND		5.4	0.32	ug/L		11/18/21 08:28	11/24/21 05:31	1
Benzo[k]fluoranthene	ND		5.4	0.22	ug/L		11/18/21 08:28	11/24/21 05:31	1
Benzoic acid	ND		32	4.3	ug/L		11/18/21 08:28	11/24/21 05:31	1
Benzyl alcohol	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Bis(2-chloroethoxy)methane	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Bis(2-chloroethyl)ether	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Bis(2-ethylhexyl) phthalate	ND		5.4	1.1	ug/L		11/18/21 08:28	11/24/21 05:31	1
Butylbenzylphthalate	ND		5.4	1.1	ug/L		11/18/21 08:28	11/24/21 05:31	1
Carbazole	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Chrysene	ND		5.4	0.22	ug/L		11/18/21 08:28	11/24/21 05:31	1
Dibenz(a,h)anthracene	ND		5.4	0.32	ug/L		11/18/21 08:28	11/24/21 05:31	1
Dibenzofuran	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Diethylphthalate	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Dimethylphthalate	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Di-n-butyl phthalate	ND		5.4	1.1	ug/L		11/18/21 08:28	11/24/21 05:31	1
Di-n-octyl phthalate	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Diphenyl ether	ND		5.4	0.81	ug/L		11/18/21 08:28	11/24/21 05:31	1
Fluoranthene	ND		5.4	0.22	ug/L		11/18/21 08:28	11/24/21 05:31	1
Fluorene	ND		5.4	0.22	ug/L		11/18/21 08:28	11/24/21 05:31	1
Hexachlorobenzene	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Hexachlorobutadiene	ND		2.2	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Hexachlorocyclopentadiene	ND		16	3.2	ug/L		11/18/21 08:28	11/24/21 05:31	1
Hexachloroethane	ND		2.2	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Indeno[1,2,3-cd]pyrene	ND		5.4	0.32	ug/L		11/18/21 08:28	11/24/21 05:31	1
Isophorone	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Naphthalene	ND		2.2	0.32	ug/L		11/18/21 08:28	11/24/21 05:31	1
n-Decane	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
n-Docosane	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
n-Eicosane	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
n-Hexadecane	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Nitrobenzene	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
N-Nitrosodiethylamine	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
N-Nitrosodimethylamine	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
N-Nitrosodi-n-butylamine	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
N-Nitrosodi-n-propylamine	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
N-Nitrosodiphenylamine	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1

Client Sample ID: RECEIVING-WATER-002
Lab Sample ID: 410-63032-2
Date Collected: 11/11/21 10:00
Matrix: Surface Water
Date Received: 11/11/21 21:34

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
n-Octadecane	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
n-Tetradecane	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
o-Toluidine	ND		5.4	1.1	ug/L		11/18/21 08:28	11/24/21 05:31	1
Pentachlorobenzene	ND		5.4	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Pentachlorophenol	ND		5.4	0.86	ug/L		11/18/21 08:28	11/24/21 05:31	1
Phenanthrene	ND		5.4	0.22	ug/L		11/18/21 08:28	11/24/21 05:31	1
Phenol	ND		1.1	0.54	ug/L		11/18/21 08:28	11/24/21 05:31	1
Pyrene	ND		5.4	0.27	ug/L		11/18/21 08:28	11/24/21 05:31	1
Pyridine	ND	*+	5.4	0.86	ug/L		11/18/21 08:28	11/24/21 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*86*		*23 - 140*	*11/18/21 08:28*	*11/24/21 05:31*	*1*
2-Fluorobiphenyl (Surr)	*87*		*36 - 101*	*11/18/21 08:28*	*11/24/21 05:31*	*1*
2-Fluorophenol (Surr)	*59*		*10 - 77*	*11/18/21 08:28*	*11/24/21 05:31*	*1*
Nitrobenzene-d5 (Surr)	*94*		*49 - 106*	*11/18/21 08:28*	*11/24/21 05:31*	*1*
Phenol-d5 (Surr)	*46*		*10 - 59*	*11/18/21 08:28*	*11/24/21 05:31*	*1*
p-Terphenyl-d14 (Surr)	*98*		*26 - 119*	*11/18/21 08:28*	*11/24/21 05:31*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	ND		50	23	ug/L			11/15/21 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*106*		*63 - 135*		*11/15/21 14:53*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		11/15/21 07:00	11/15/21 12:23	1
Ethene (1C)	ND		5.0	1.0	ug/L		11/15/21 07:00	11/15/21 12:23	1
Methane (1C)	**8.9**		5.0	3.0	ug/L		11/15/21 07:00	11/15/21 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*96*		*28 - 130*	*11/15/21 07:00*	*11/15/21 12:23*	*1*

Method: 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	ND		0.011	0.0055	ug/L		11/16/21 09:35	11/17/21 08:48	1
alpha-BHC (1C)	ND		0.033	0.013	ug/L		11/16/21 09:35	11/17/21 08:48	1
beta-BHC (1C)	ND		0.11	0.050	ug/L		11/16/21 09:35	11/17/21 08:48	1
alpha-Chlordane (1C)	ND		0.011	0.0066	ug/L		11/16/21 09:35	11/17/21 08:48	1
delta-BHC (1C)	ND		0.033	0.012	ug/L		11/16/21 09:35	11/17/21 08:48	1
Dieldrin (1C)	ND		0.022	0.0087	ug/L		11/16/21 09:35	11/17/21 08:48	1
Endosulfan I (1C)	ND		0.011	0.0033	ug/L		11/16/21 09:35	11/17/21 08:48	1
Endosulfan II (1C)	ND		0.022	0.011	ug/L		11/16/21 09:35	11/17/21 08:48	1
Endosulfan sulfate (1C)	ND		0.022	0.011	ug/L		11/16/21 09:35	11/17/21 08:48	1
Endrin (1C)	ND		0.11	0.0098	ug/L		11/16/21 09:35	11/17/21 08:48	1
Endrin aldehyde (1C)	ND		0.022	0.010	ug/L		11/16/21 09:35	11/17/21 08:48	1
gamma-BHC (Lindane) (1C)	ND		0.011	0.0057	ug/L		11/16/21 09:35	11/17/21 08:48	1
Heptachlor (1C)	ND		0.011	0.0087	ug/L		11/16/21 09:35	11/17/21 08:48	1
Heptachlor epoxide (1C)	ND		0.11	0.0055	ug/L		11/16/21 09:35	11/17/21 08:48	1

Client Sample ID: RECEIVING-WATER-002
Lab Sample ID: 410-63032-2
Date Collected: 11/11/21 10:00
Matrix: Surface Water
Date Received: 11/11/21 21:34

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD (1C)	ND		0.022	0.0098	ug/L		11/16/21 09:35	11/17/21 08:48	1
4,4'-DDE (1C)	ND		0.044	0.022	ug/L		11/16/21 09:35	11/17/21 08:48	1
4,4'-DDT (1C)	ND		0.022	0.011	ug/L		11/16/21 09:35	11/17/21 08:48	1
Toxaphene (1C)	ND		1.1	0.39	ug/L		11/16/21 09:35	11/17/21 08:48	1
Chlordane (n.o.s.) (1C)	ND		0.55	0.25	ug/L		11/16/21 09:35	11/17/21 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*54*		*32 - 149*	*11/16/21 09:35*	*11/17/21 08:48*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*49*		*32 - 149*	*11/16/21 09:35*	*11/17/21 08:48*	*1*
Tetrachloro-m-xylene (1C)	*57*		*29 - 129*	*11/16/21 09:35*	*11/17/21 08:48*	*1*
Tetrachloro-m-xylene (2C)	*48*		*29 - 129*	*11/16/21 09:35*	*11/17/21 08:48*	*1*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.55	0.10	ug/L		11/16/21 09:37	11/17/21 10:27	1
PCB-1221 (1C)	ND		0.55	0.23	ug/L		11/16/21 09:37	11/17/21 10:27	1
PCB-1232 (1C)	ND		0.55	0.14	ug/L		11/16/21 09:37	11/17/21 10:27	1
PCB-1242 (1C)	ND		0.55	0.22	ug/L		11/16/21 09:37	11/17/21 10:27	1
PCB-1248 (1C)	ND		0.55	0.23	ug/L		11/16/21 09:37	11/17/21 10:27	1
PCB-1254 (1C)	ND		0.55	0.17	ug/L		11/16/21 09:37	11/17/21 10:27	1
PCB-1260 (1C)	ND		0.55	0.086	ug/L		11/16/21 09:37	11/17/21 10:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*72*		*10 - 127*	*11/16/21 09:37*	*11/17/21 10:27*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*69*		*10 - 127*	*11/16/21 09:37*	*11/17/21 10:27*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*77*		*18 - 115*	*11/16/21 09:37*	*11/17/21 10:27*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*68*		*18 - 115*	*11/16/21 09:37*	*11/17/21 10:27*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	**0.089**	**J**	0.19	0.071	mg/L		11/17/21 21:00	11/18/21 20:35	1
>C28-C35 (1C)	ND		0.19	0.071	mg/L		11/17/21 21:00	11/18/21 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*85*		*27 - 143*	*11/17/21 21:00*	*11/18/21 20:35*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1800**		1000	300	mg/L			11/24/21 18:36	1000
Chloride	**11000**		2000	1000	mg/L			11/29/21 16:33	5000

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		11/17/21 16:00	11/20/21 04:05	1
Aluminum	**92**		25	20	ug/L		11/17/21 16:00	11/20/21 04:05	1
Arsenic	**2.1**		2.0	0.68	ug/L		11/17/21 16:00	11/20/21 04:05	1
Barium	**25**	**^2**	2.0	0.75	ug/L		11/17/21 16:00	11/20/21 04:05	1
Beryllium	ND		0.50	0.12	ug/L		11/17/21 16:00	11/29/21 09:39	1
Cadmium	ND		0.50	0.15	ug/L		11/17/21 16:00	11/20/21 04:05	1
Calcium	**280000**		1000	740	ug/L		11/17/21 16:00	11/20/21 04:07	10
Chromium	**0.64**	**J**	2.0	0.33	ug/L		11/17/21 16:00	11/20/21 04:05	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63032-1

Client Sample ID: RECEIVING-WATER-002
Date Collected: 11/11/21 10:00
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-2
Matrix: Surface Water

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.23	J	0.50	0.16	ug/L		11/17/21 16:00	11/20/21 04:05	1
Copper	4.4		1.0	0.36	ug/L		11/17/21 16:00	11/20/21 04:05	1
Iron	350		50	23	ug/L		11/17/21 16:00	11/20/21 04:05	1
Lead	2.0		0.50	0.071	ug/L		11/17/21 16:00	11/20/21 04:05	1
Magnesium	790000		500	100	ug/L		11/17/21 16:00	11/20/21 04:07	10
Manganese	85		2.0	0.63	ug/L		11/17/21 16:00	11/20/21 04:05	1
Nickel	3.0		1.0	0.60	ug/L		11/17/21 16:00	11/20/21 04:05	1
Potassium	250000		2000	1100	ug/L		11/17/21 16:00	11/20/21 04:07	10
Selenium	0.29	J	1.0	0.28	ug/L		11/17/21 16:00	11/20/21 04:05	1
Silver	ND		0.50	0.17	ug/L		11/17/21 16:00	11/20/21 04:05	1
Sodium	7800000	^2	20000	5000	ug/L		11/17/21 16:00	11/20/21 04:09	100
Thallium	ND		0.50	0.13	ug/L		11/17/21 16:00	11/20/21 04:05	1
Vanadium	2.0	J	4.0	0.79	ug/L		11/17/21 16:00	11/20/21 04:05	1
Zinc	14		10	6.2	ug/L		11/17/21 16:00	11/20/21 04:05	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/17/21 14:55	11/17/21 20:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	1.9	J	5.3	1.5	mg/L			11/16/21 19:37	1
Turbidity	2.7		1.0	1.0	NTU			11/12/21 17:50	1
Total Alkalinity as CaCO3 to pH 4.5	120		8.0	2.6	mg/L			11/16/21 22:34	1
Total Hardness	3600		200	60	mg/L			11/18/21 23:43	20
Specific Conductance	24000	B	5.0	1.7	umhos/cm			11/16/21 22:34	1
Total Dissolved Solids	20000		2400	960	mg/L			11/16/21 07:19	1
Total Suspended Solids	7.4		3.0	1.0	mg/L			11/15/21 01:35	1
Settleable Solids	ND		0.10	0.10	mL/L			11/12/21 19:25	1
Total Kjeldahl Nitrogen	0.79	J	1.0	0.50	mg/L		11/29/21 13:00	11/30/21 10:23	1
Nitrate as N	0.37		0.10	0.040	mg/L			11/17/21 23:32	1
Total Phosphorus as PO4	0.44		0.31	0.25	mg/L		11/19/21 20:09	11/22/21 12:37	1
Chemical Oxygen Demand	310	J	750	250	mg/L			11/19/21 21:20	10
Phenols, Total	ND		1.0	0.50	mg/L			11/23/21 12:49	50
pH	7.5	HF	0.01	0.01	S.U.			11/16/21 22:34	1
Temperature	20.6	HF	0.01	0.01	Degrees C			11/16/21 22:34	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			11/12/21 14:48	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63032-1

Client Sample ID: QAQC_TB
Date Collected: 10/12/21 00:00
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-3
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,1,1-Trichloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,1,2,2-Tetrachloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,1,2-Trichloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,1-Dichloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,1-Dichloroethene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,2-Dichloroethane	ND	H H3	1.0	0.30	ug/L			11/12/21 20:37	1
1,1-Dichloropropene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,2-Dichloropropane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,2,3-Trichlorobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Benzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,2,3-Trichloropropane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Bromodichloromethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,2,4-Trichlorobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Bromoform	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,2,4-Trimethylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Bromomethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,2-Dibromo-3-Chloropropane	ND	H H3	1.0	0.50	ug/L			11/12/21 20:37	1
Carbon tetrachloride	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,2-Dibromoethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Chlorobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,2-Dichlorobenzene	ND	H H3	1.0	0.10	ug/L			11/12/21 20:37	1
Chloroethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Chloroform	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,2-Dichloroethene (total)	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Chloromethane	ND	H H3	1.0	0.30	ug/L			11/12/21 20:37	1
cis-1,2-Dichloroethene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,3,5-Trimethylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
cis-1,3-Dichloropropene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,3-Dichlorobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Dibromochloromethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,3-Dichloropropane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Ethylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
1,4-Dichlorobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Methylene Chloride	ND	H H3	1.0	0.30	ug/L			11/12/21 20:37	1
1,4-Dioxane	ND	H H3	50	15	ug/L			11/12/21 20:37	1
Toluene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
2,2-Dichloropropane	ND	H H3	1.0	0.30	ug/L			11/12/21 20:37	1
Tetrachloroethene	ND	H H3	1.0	0.30	ug/L			11/12/21 20:37	1
trans-1,2-Dichloroethene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
2-Chloro-1,3-butadiene	ND	H H3	1.0	0.50	ug/L			11/12/21 20:37	1
trans-1,3-Dichloropropene	ND	H H3	1.0	0.10	ug/L			11/12/21 20:37	1
2-Chlorotoluene	ND	H H3	1.0	0.50	ug/L			11/12/21 20:37	1
Trichloroethene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
2-Hexanone	ND	H H3	2.0	0.50	ug/L			11/12/21 20:37	1
Trichlorofluoromethane	ND	H H3	1.0	0.30	ug/L			11/12/21 20:37	1
2-Propanol	ND	H H3	20	8.0	ug/L			11/12/21 20:37	1
Vinyl chloride	ND	H H3	1.0	0.30	ug/L			11/12/21 20:37	1
4-Chlorotoluene	ND	H H3	1.0	0.50	ug/L			11/12/21 20:37	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63032-1

Client Sample ID: QAQC_TB
Date Collected: 10/12/21 00:00
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-3
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND	H H3	2.0	0.50	ug/L			11/12/21 20:37	1
Acetonitrile	ND	H H3	50	14	ug/L			11/12/21 20:37	1
Xylenes, Total	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Benzyl chloride	ND	H H3	1.0	0.25	ug/L			11/12/21 20:37	1
Bromobenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Butyl acetate	ND	H H3	5.0	0.60	ug/L			11/12/21 20:37	1
Carbon disulfide	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Cyclohexane	ND	H H3	1.0	0.30	ug/L			11/12/21 20:37	1
Dibromomethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Dichlorodifluoromethane	ND	H H3	1.0	0.10	ug/L			11/12/21 20:37	1
Dichlorofluoromethane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Ethyl acetate	ND	H H3	5.0	0.80	ug/L			11/12/21 20:37	1
Ethyl methacrylate	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Ethyl t-butyl ether	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Freon 113	ND	H H3	1.0	0.30	ug/L			11/12/21 20:37	1
Freon 123a	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Hexachlorobutadiene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Isobutyl alcohol	ND	H H3	50	11	ug/L			11/12/21 20:37	1
Isopropyl acetate	ND	H H3	5.0	0.60	ug/L			11/12/21 20:37	1
Isopropylbenzene	ND	H H3	2.0	0.50	ug/L			11/12/21 20:37	1
Methacrylonitrile	ND	H H3	10	2.0	ug/L			11/12/21 20:37	1
Methyl iodide	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Methyl methacrylate	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Naphthalene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Propionitrile	ND	H H3	20	4.0	ug/L			11/12/21 20:37	1
Styrene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
Tetrahydrofuran	ND	H H3	5.0	1.0	ug/L			11/12/21 20:37	1
Vinyl acetate	ND	H H3	5.0	0.70	ug/L			11/12/21 20:37	1
di-Isopropyl ether	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
m&p-Xylene	ND	H H3	1.0	0.30	ug/L			11/12/21 20:37	1
n-Butylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
n-Heptane	ND	H H3	1.0	0.30	ug/L			11/12/21 20:37	1
n-Hexane	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
n-Propyl acetate	ND	H H3	5.0	0.60	ug/L			11/12/21 20:37	1
N-Propylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
o-Xylene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
p-Isopropyltoluene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
sec-Butylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
t-Amyl methyl ether	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
t-Butyl alcohol	ND	H H3	20	6.0	ug/L			11/12/21 20:37	1
tert-Butylbenzene	ND	H H3	1.0	0.20	ug/L			11/12/21 20:37	1
trans-1,4-Dichloro-2-butene	ND	H H3	10	3.0	ug/L			11/12/21 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*		*11/12/21 20:37*	*1*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*11/12/21 20:37*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*		*11/12/21 20:37*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*11/12/21 20:37*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63032-1

Client Sample ID: QAQC_TB
Date Collected: 10/12/21 00:00
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/16/21 21:55	1
Acetone	ND		20	0.70	ug/L			11/16/21 21:55	1
2-Butanone	ND		10	0.50	ug/L			11/16/21 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*11/16/21 21:55*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/16/21 21:55*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/16/21 21:55*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/16/21 21:55*	*1*

Action Limit Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63032-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 410-63032-1

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	2.2	J	mg/L	5	5.3	1664A	Total/NA

Client Sample ID: RECEIVING-WATER-002
Lab Sample ID: 410-63032-2

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	1.9	J	mg/L	5	5.3	1664A	Total/NA

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63032-1
Project/Site: EMGPRP-31097

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-63032-1	ORS-INFLUENT	100	100	99	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-63032-2	RECEIVING-WATER-002	104	98	104	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-63032-3	QAQC_TB	101	100	105	100
LCS 410-194089/1003	Lab Control Sample	104	100	101	100
LCS 410-194089/1004	Lab Control Sample	105	101	103	97
MB 410-194089/5	Method Blank	102	99	102	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-63032-1	ORS-INFLUENT	102	106	103	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63032-1
Project/Site: EMGPRP-31097

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

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-63032-2	RECEIVING-WATER-002	100	106	102	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-63032-3	QAQC_TB	99	99	98	98
LCS 410-194676/4	Lab Control Sample	102	106	104	104
LCS 410-195556/4	Lab Control Sample	97	100	100	100
MB 410-194676/6	Method Blank	107	106	102	103
MB 410-195556/6	Method Blank	104	101	99	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(23-140)	(36-101)	(10-77)	(49-106)	(10-59)	(26-119)
410-63032-1	ORS-INFLUENT	63	79	42	84	41	89

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(23-140)	(36-101)	(10-77)	(49-106)	(10-59)	(26-119)
410-63032-2	RECEIVING-WATER-002	86	87	59	94	46	98

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(23-140)	(36-101)	(10-77)	(49-106)	(10-59)	(26-119)
LCS 410-196248/2-A	Lab Control Sample	104	89	64	102	43	101
LCS 410-196248/4-A	Lab Control Sample	99	80	61	96	41	93
LCSD 410-196248/3-A	Lab Control Sample Dup	97	86	60	92	40	94
LCSD 410-196248/5-A	Lab Control Sample Dup	104	86	61	98	40	99
MB 410-196248/1-A	Method Blank	93	79	55	90	35	98

Surrogate Legend

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

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
410-63032-1	ORS-INFLUENT	109

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
410-63032-2	RECEIVING-WATER-002	106

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
LCS 410-194175/5	Lab Control Sample	97
LCSD 410-194175/6	Lab Control Sample Dup	96
MB 410-194175/4	Method Blank	106

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63032-1
Project/Site: EMGPRP-31097

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(28-130)								
410-63032-1	ORS-INFLUENT	87								
410-63032-1 - DL	ORS-INFLUENT	87								

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(28-130)								
410-63032-2	RECEIVING-WATER-002	96								

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(28-130)								
LCS 410-194774/2-A	Lab Control Sample	103								
LCS 410-195145/2-A	Lab Control Sample	95								
LCSD 410-194774/3-A	Lab Control Sample Dup	102								
LCSD 410-195145/3-A	Lab Control Sample Dup	95								
MB 410-194774/1-A	Method Blank	105								
MB 410-195145/1-A	Method Blank	102								

Surrogate Legend

Propene = Propene

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DCB1	DCB2	TCX1	TCX2					
Lab Sample ID	Client Sample ID	(32-149)	(32-149)	(29-129)	(29-129)					
410-63032-1	ORS-INFLUENT	56	50	56	49					

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DCB1	DCB2	TCX1	TCX2					
Lab Sample ID	Client Sample ID	(32-149)	(32-149)	(29-129)	(29-129)					
410-63032-2	RECEIVING-WATER-002	54	49	57	48					

Surrogate Legend

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63032-1
Project/Site: EMGPRP-31097

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(32-149)	(29-129)								
LCS 410-195128/2-A	Lab Control Sample	39	52								
LCSD 410-195128/3-A	Lab Control Sample Dup	49	57								
MB 410-195128/1-A	Method Blank	46	52								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	DCB2	TCX1	TCX2						
Lab Sample ID	Client Sample ID	(10-127)	(10-127)	(18-115)	(18-115)						
410-63032-1	ORS-INFLUENT	71	72	80	70						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Surface Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	DCB2	TCX1	TCX2						
Lab Sample ID	Client Sample ID	(10-127)	(10-127)	(18-115)	(18-115)						
410-63032-2	RECEIVING-WATER-002	72	69	77	68						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	DCB2	TCX1	TCX2						
Lab Sample ID	Client Sample ID	(10-127)	(10-127)	(18-115)	(18-115)						
LCS 410-195129/2-A	Lab Control Sample	89	84	63	59						
LCSD 410-195129/3-A	Lab Control Sample Dup	93	86	66	61						
MB 410-195129/1-A	Method Blank	67	66	75	68						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63032-1
Project/Site: EMGPRP-31097

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTP1
Lab Sample ID	Client Sample ID	(27-143)
410-63032-1	ORS-INFLUENT	74

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Surface Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTP1
Lab Sample ID	Client Sample ID	(27-143)
410-63032-2	RECEIVING-WATER-002	85

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTP1
Lab Sample ID	Client Sample ID	(27-143)
LCS 410-196131/2-A	Lab Control Sample	85
LCSD 410-196131/3-A	Lab Control Sample Dup	81
MB 410-196131/1-A	Method Blank	75

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-194089/5
Matrix: Water
Analysis Batch: 194089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/12/21 11:51	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/12/21 11:51	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			11/12/21 11:51	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			11/12/21 11:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Benzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
1,4-Dioxane	ND		50	15	ug/L			11/12/21 11:51	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Bromoform	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Bromomethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/12/21 11:51	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			11/12/21 11:51	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/12/21 11:51	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Chloroethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
2-Hexanone	ND		2.0	0.50	ug/L			11/12/21 11:51	1
Chloroform	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Chloromethane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
2-Propanol	ND		20	8.0	ug/L			11/12/21 11:51	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/12/21 11:51	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/12/21 11:51	1
Acetonitrile	ND		50	14	ug/L			11/12/21 11:51	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/12/21 11:51	1
Bromobenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Butyl acetate	ND		5.0	0.60	ug/L			11/12/21 11:51	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Carbon disulfide	ND		1.0	0.20	ug/L			11/12/21 11:51	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-194089/5
Matrix: Water
Analysis Batch: 194089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Dibromomethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			11/12/21 11:51	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/12/21 11:51	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Freon 113	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Freon 123a	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Isobutyl alcohol	ND		50	11	ug/L			11/12/21 11:51	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/12/21 11:51	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/12/21 11:51	1
Methacrylonitrile	ND		10	2.0	ug/L			11/12/21 11:51	1
Methyl iodide	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Naphthalene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Propionitrile	ND		20	4.0	ug/L			11/12/21 11:51	1
Styrene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/12/21 11:51	1
m&p-Xylene	ND		1.0	0.30	ug/L			11/12/21 11:51	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
n-Heptane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/12/21 11:51	1
n-Hexane	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/12/21 11:51	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/12/21 11:51	1
Toluene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
o-Xylene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/12/21 11:51	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Trichloroethene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
t-Butyl alcohol	ND		20	6.0	ug/L			11/12/21 11:51	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/12/21 11:51	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/12/21 11:51	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/12/21 11:51	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/12/21 11:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/12/21 11:51	1
Acrolein	ND		10	3.0	ug/L			11/12/21 11:51	1
Acrylonitrile	ND		1.0	0.30	ug/L			11/12/21 11:51	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-194089/5
Matrix: Water
Analysis Batch: 194089

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*11/12/21 11:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*11/12/21 11:51*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*		*11/12/21 11:51*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*11/12/21 11:51*	*1*

Lab Sample ID: LCS 410-194089/1003
Matrix: Water
Analysis Batch: 194089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	21.6		ug/L		108	60 - 140
1,1,1-Trichloroethane	20.0	20.2		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.6		ug/L		108	60 - 140
1,1,2-Trichloroethane	20.0	20.3		ug/L		101	70 - 130
1,1-Dichloroethane	20.0	20.0		ug/L		100	70 - 130
1,1-Dichloroethene	20.0	20.1		ug/L		100	50 - 150
1,1-Dichloropropene	20.0	20.0		ug/L		100	60 - 140
1,2,3-Trichlorobenzene	20.0	18.5		ug/L		93	60 - 140
1,2,3-Trichloropropane	20.0	22.0		ug/L		110	60 - 140
1,2,4-Trichlorobenzene	20.0	17.9		ug/L		90	60 - 140
1,2-Dichloroethane	20.0	19.1		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	20.0	19.8		ug/L		99	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	60 - 140
1,2-Dichloropropane	20.0	20.3		ug/L		102	35 - 165
1,2-Dibromoethane	20.0	20.5		ug/L		102	60 - 140
1,2-Dichlorobenzene	20.0	19.5		ug/L		98	65 - 135
1,2-Dichloroethene (total)	40.0	39.5		ug/L		99	60 - 140
1,3,5-Trimethylbenzene	20.0	19.8		ug/L		99	60 - 140
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	70 - 130
1,3-Dichloropropane	20.0	19.9		ug/L		100	60 - 140
1,4-Dichlorobenzene	20.0	18.9		ug/L		95	65 - 135
Benzene	20.0	20.2		ug/L		101	65 - 135
1,4-Dioxane	500	622		ug/L		124	60 - 140
Bromodichloromethane	20.0	21.5		ug/L		108	65 - 135
2,2-Dichloropropane	20.0	21.2		ug/L		106	60 - 140
Bromoform	20.0	21.6		ug/L		108	70 - 130
Bromomethane	20.0	23.3		ug/L		116	15 - 185
2-Chloro-1,3-butadiene	20.0	22.5		ug/L		112	60 - 140
Carbon tetrachloride	20.0	21.9		ug/L		110	70 - 130
2-Chlorotoluene	20.0	19.3		ug/L		97	60 - 140
Chlorobenzene	20.0	19.5		ug/L		98	65 - 135
Chloroethane	20.0	22.8		ug/L		114	40 - 160
2-Hexanone	250	263		ug/L		105	60 - 140
Chloroform	20.0	20.0		ug/L		100	70 - 135
Chloromethane	20.0	21.2		ug/L		106	10 - 200
2-Propanol	150	202		ug/L		135	60 - 140
cis-1,2-Dichloroethene	20.0	20.3		ug/L		101	60 - 140
cis-1,3-Dichloropropene	20.0	19.3		ug/L		97	25 - 175

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-194089/1003
Matrix: Water
Analysis Batch: 194089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	20.0	20.1		ug/L		100	60 - 140
Dibromochloromethane	20.0	21.5		ug/L		108	70 - 135
4-Methyl-2-pentanone	250	261		ug/L		104	60 - 140
Benzyl chloride	20.0	22.9		ug/L		115	60 - 140
Bromobenzene	20.0	20.1		ug/L		101	60 - 140
Ethylbenzene	20.0	20.0		ug/L		100	60 - 140
Carbon disulfide	20.0	24.2		ug/L		121	60 - 140
Cyclohexane	20.0	18.7		ug/L		93	60 - 140
Dibromomethane	20.0	21.0		ug/L		105	60 - 140
Dichlorodifluoromethane	20.0	23.6		ug/L		118	60 - 140
Dichlorofluoromethane	20.0	22.2		ug/L		111	60 - 140
Ethyl methacrylate	20.0	19.1		ug/L		95	60 - 140
Ethyl t-butyl ether	20.0	20.3		ug/L		101	60 - 140
Freon 113	20.0	22.9		ug/L		115	60 - 140
Freon 123a	20.0	19.7		ug/L		98	60 - 140
Hexachlorobutadiene	20.0	18.2		ug/L		91	60 - 140
Methylene Chloride	20.0	19.8		ug/L		99	60 - 140
Isobutyl alcohol	500	563		ug/L		113	60 - 140
Isopropylbenzene	20.0	19.9		ug/L		100	60 - 140
Methacrylonitrile	150	156		ug/L		104	60 - 140
Methyl iodide	20.0	21.4		ug/L		107	60 - 140
Methyl methacrylate	20.0	21.0		ug/L		105	60 - 140
Naphthalene	20.0	19.5		ug/L		97	60 - 140
Propionitrile	150	177		ug/L		118	60 - 140
Styrene	20.0	19.9		ug/L		100	60 - 140
di-Isopropyl ether	20.0	20.1		ug/L		100	60 - 140
m&p-Xylene	40.0	39.3		ug/L		98	60 - 140
n-Butylbenzene	20.0	19.0		ug/L		95	60 - 140
n-Heptane	20.0	18.6		ug/L		93	60 - 140
Tetrachloroethene	20.0	19.1		ug/L		96	70 - 130
n-Hexane	20.0	20.8		ug/L		104	60 - 140
Tetrahydrofuran	100	107		ug/L		107	60 - 140
Toluene	20.0	19.8		ug/L		99	70 - 130
N-Propylbenzene	20.0	19.6		ug/L		98	60 - 140
o-Xylene	20.0	19.2		ug/L		96	60 - 140
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	70 - 130
p-Isopropyltoluene	20.0	19.1		ug/L		95	60 - 140
trans-1,3-Dichloropropene	20.0	20.8		ug/L		104	50 - 150
sec-Butylbenzene	20.0	19.8		ug/L		99	60 - 140
t-Amyl methyl ether	20.0	19.6		ug/L		98	60 - 140
Trichloroethene	20.0	19.7		ug/L		98	65 - 135
t-Butyl alcohol	200	244		ug/L		122	60 - 140
Trichlorofluoromethane	20.0	21.1		ug/L		105	50 - 150
tert-Butylbenzene	20.0	19.3		ug/L		96	60 - 140
trans-1,4-Dichloro-2-butene	100	111		ug/L		111	60 - 140
Vinyl chloride	20.0	20.6		ug/L		103	10 - 195
Xylenes, Total	60.0	58.5		ug/L		98	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-194089/1003
Matrix: Water
Analysis Batch: 194089

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
4-Bromofluorobenzene (Surr)	100		60 - 140
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	100		60 - 140

Lab Sample ID: LCS 410-194089/1004
Matrix: Water
Analysis Batch: 194089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetonitrile	150	187		ug/L		125	60 - 140
Butyl acetate	20.0	18.7		ug/L		94	60 - 140
Ethyl acetate	20.0	20.6		ug/L		103	60 - 140
Isopropyl acetate	20.0	20.2		ug/L		101	60 - 140
n-Propyl acetate	20.0	19.3		ug/L		96	60 - 140
Vinyl acetate	100	128		ug/L		128	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		60 - 140
4-Bromofluorobenzene (Surr)	101		60 - 140
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	97		60 - 140

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

Lab Sample ID: MB 410-194676/6
Matrix: Water
Analysis Batch: 194676

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/15/21 10:05	1
Acetone	ND		20	0.70	ug/L			11/15/21 10:05	1
2-Butanone	ND		10	0.50	ug/L			11/15/21 10:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		11/15/21 10:05	1
Dibromofluoromethane (Surr)	106		80 - 120		11/15/21 10:05	1
4-Bromofluorobenzene (Surr)	102		80 - 120		11/15/21 10:05	1
Toluene-d8 (Surr)	103		80 - 120		11/15/21 10:05	1

Lab Sample ID: LCS 410-194676/4
Matrix: Water
Analysis Batch: 194676

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tertiary butyl ether	20.0	19.3		ug/L		97	69 - 122
Acetone	250	248		ug/L		99	54 - 157
2-Butanone	250	273		ug/L		109	59 - 135

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

Lab Sample ID: LCS 410-194676/4
Matrix: Water
Analysis Batch: 194676

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: MB 410-195556/6
Matrix: Water
Analysis Batch: 195556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/16/21 21:10	1
Acetone	ND		20	0.70	ug/L			11/16/21 21:10	1
2-Butanone	ND		10	0.50	ug/L			11/16/21 21:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		11/16/21 21:10	1
Dibromofluoromethane (Surr)	101		80 - 120		11/16/21 21:10	1
4-Bromofluorobenzene (Surr)	99		80 - 120		11/16/21 21:10	1
Toluene-d8 (Surr)	100		80 - 120		11/16/21 21:10	1

Lab Sample ID: LCS 410-195556/4
Matrix: Water
Analysis Batch: 195556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tertiary butyl ether	20.0	19.0		ug/L		95	69 - 122
Acetone	250	239		ug/L		96	54 - 157
2-Butanone	250	206		ug/L		82	59 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-196248/1-A
Matrix: Water
Analysis Batch: 198279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-196248/1-A
Matrix: Water
Analysis Batch: 198279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
1,4-Dioxane	ND		5.0	2.0	ug/L		11/18/21 08:28	11/24/21 01:20	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		11/18/21 08:28	11/24/21 01:20	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		11/18/21 08:28	11/24/21 01:20	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		11/18/21 08:28	11/24/21 01:20	1
2-Chlorophenol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		11/18/21 08:28	11/24/21 01:20	1
2-Methylphenol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2-Nitroaniline	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
2-Nitrophenol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		11/18/21 08:28	11/24/21 01:20	1
3-Nitroaniline	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		11/18/21 08:28	11/24/21 01:20	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
4-Chloroaniline	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
4-Methylphenol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
4-Nitroaniline	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
4-Nitrophenol	ND		5.0	0.90	ug/L		11/18/21 08:28	11/24/21 01:20	1
Acenaphthene	ND		5.0	0.25	ug/L		11/18/21 08:28	11/24/21 01:20	1
Acenaphthylene	ND		5.0	0.20	ug/L		11/18/21 08:28	11/24/21 01:20	1
Acetophenone	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Aniline	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Anthracene	ND		5.0	0.25	ug/L		11/18/21 08:28	11/24/21 01:20	1
a-Terpineol	ND		5.0	0.60	ug/L		11/18/21 08:28	11/24/21 01:20	1
Benzidine	ND		60	6.0	ug/L		11/18/21 08:28	11/24/21 01:20	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		11/18/21 08:28	11/24/21 01:20	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		11/18/21 08:28	11/24/21 01:20	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		11/18/21 08:28	11/24/21 01:20	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		11/18/21 08:28	11/24/21 01:20	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		11/18/21 08:28	11/24/21 01:20	1
Benzoic acid	ND		30	4.0	ug/L		11/18/21 08:28	11/24/21 01:20	1
Benzyl alcohol	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		11/18/21 08:28	11/24/21 01:20	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		11/18/21 08:28	11/24/21 01:20	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-196248/1-A
Matrix: Water
Analysis Batch: 198279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Chrysene	ND		5.0	0.20	ug/L		11/18/21 08:28	11/24/21 01:20	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		11/18/21 08:28	11/24/21 01:20	1
Dibenzofuran	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Diethylphthalate	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Dimethylphthalate	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		11/18/21 08:28	11/24/21 01:20	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Diphenyl ether	ND		5.0	0.75	ug/L		11/18/21 08:28	11/24/21 01:20	1
Fluoranthene	ND		5.0	0.20	ug/L		11/18/21 08:28	11/24/21 01:20	1
Fluorene	ND		5.0	0.20	ug/L		11/18/21 08:28	11/24/21 01:20	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		11/18/21 08:28	11/24/21 01:20	1
Hexachloroethane	ND		2.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		11/18/21 08:28	11/24/21 01:20	1
Isophorone	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Naphthalene	ND		2.0	0.30	ug/L		11/18/21 08:28	11/24/21 01:20	1
n-Decane	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
n-Docosane	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
n-Eicosane	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
n-Hexadecane	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Nitrobenzene	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
n-Octadecane	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
n-Tetradecane	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
o-Toluidine	ND		5.0	1.0	ug/L		11/18/21 08:28	11/24/21 01:20	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Pentachlorophenol	ND		5.0	0.80	ug/L		11/18/21 08:28	11/24/21 01:20	1
Phenanthrene	ND		5.0	0.20	ug/L		11/18/21 08:28	11/24/21 01:20	1
Phenol	ND		1.0	0.50	ug/L		11/18/21 08:28	11/24/21 01:20	1
Pyrene	ND		5.0	0.25	ug/L		11/18/21 08:28	11/24/21 01:20	1
Pyridine	ND		5.0	0.80	ug/L		11/18/21 08:28	11/24/21 01:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*93*		*23 - 140*	*11/18/21 08:28*	*11/24/21 01:20*	*1*
2-Fluorobiphenyl (Surr)	*79*		*36 - 101*	*11/18/21 08:28*	*11/24/21 01:20*	*1*
2-Fluorophenol (Surr)	*55*		*10 - 77*	*11/18/21 08:28*	*11/24/21 01:20*	*1*
Nitrobenzene-d5 (Surr)	*90*		*49 - 106*	*11/18/21 08:28*	*11/24/21 01:20*	*1*
Phenol-d5 (Surr)	*35*		*10 - 59*	*11/18/21 08:28*	*11/24/21 01:20*	*1*
p-Terphenyl-d14 (Surr)	*98*		*26 - 119*	*11/18/21 08:28*	*11/24/21 01:20*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-196248/2-A
Matrix: Water
Analysis Batch: 198279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	50.0	43.3		ug/L		87	52 - 106
1,2,4,5-Tetrachlorobenzene	50.0	41.8		ug/L		84	43 - 94
1,2,4-Trichlorobenzene	50.0	38.1		ug/L		76	44 - 142
1,2-Dichlorobenzene	50.0	40.7		ug/L		81	36 - 87
1,2-Diphenylhydrazine	50.0	51.0		ug/L		102	69 - 117
1,3-Dichlorobenzene	50.0	40.7		ug/L		81	30 - 85
1,4-Dichlorobenzene	50.0	39.5		ug/L		79	32 - 85
1,4-Dioxane	50.0	21.9		ug/L		44	30 - 60
1-Methylnaphthalene	50.0	42.8		ug/L		86	53 - 91
1-Methylphenanthrene	50.0	47.9		ug/L		96	56 - 128
2,2'-oxybis[1-chloropropane]	50.0	44.6		ug/L		89	48 - 110
2,3,4,6-Tetrachlorophenol	50.0	46.9		ug/L		94	72 - 115
2,3-Dichloroaniline	50.0	45.8		ug/L		92	65 - 118
2,4,5-Trichlorophenol	50.0	46.3		ug/L		93	70 - 110
2,4,6-Trichlorophenol	50.0	50.5		ug/L		101	37 - 144
2,4-Dichlorophenol	50.0	50.0		ug/L		100	39 - 135
2,4-Dimethylphenol	50.0	43.5		ug/L		87	32 - 120
2,4-Dinitrophenol	100	71.9		ug/L		72	10 - 191
2,4-Dinitrotoluene	50.0	54.8		ug/L		110	39 - 139
2,6-Dichlorophenol	50.0	47.7		ug/L		95	48 - 114
2,6-Dinitrotoluene	50.0	50.3		ug/L		101	50 - 158
2-Chloronaphthalene	50.0	38.1		ug/L		76	60 - 120
2-Chlorophenol	50.0	42.3		ug/L		85	23 - 134
2-Methylnaphthalene	50.0	41.7		ug/L		83	50 - 100
2-Methylphenol	50.0	41.1		ug/L		82	56 - 99
2-Nitroaniline	50.0	52.6		ug/L		105	71 - 119
2-Nitrophenol	50.0	63.4		ug/L		127	29 - 182
3,3'-Dichlorobenzidine	100	107	E	ug/L		107	10 - 200
3-Nitroaniline	50.0	49.2		ug/L		98	64 - 113
4,6-Dinitro-2-methylphenol	100	133		ug/L		133	10 - 181
4-Bromophenyl-phenylether	50.0	48.0		ug/L		96	53 - 127
4-Chloro-3-methylphenol	50.0	44.4		ug/L		89	22 - 147
4-Chloroaniline	50.0	35.0		ug/L		70	47 - 93
4-Chlorophenyl-phenylether	50.0	41.4		ug/L		83	25 - 158
4-Methylphenol	50.0	34.6		ug/L		69	47 - 96
4-Nitroaniline	50.0	45.8		ug/L		92	52 - 112
4-Nitrophenol	100	53.4		ug/L		53	10 - 132
Acenaphthene	50.0	43.8		ug/L		88	47 - 145
Acenaphthylene	50.0	43.6		ug/L		87	33 - 145
Acetophenone	50.0	39.1		ug/L		78	64 - 101
Aniline	50.0	23.9		ug/L		48	24 - 79
Anthracene	50.0	45.1		ug/L		90	27 - 133
a-Terpineol	50.0	47.6		ug/L		95	55 - 122
Benzidine	100	ND	*-	ug/L		2	10 - 48
Benzo[a]anthracene	50.0	48.1		ug/L		96	33 - 143
Benzo[a]pyrene	50.0	40.9		ug/L		82	17 - 163
Benzo[b]fluoranthene	50.0	45.0		ug/L		90	24 - 159
Benzo[g,h,i]perylene	50.0	47.3		ug/L		95	10 - 200

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-196248/2-A
Matrix: Water
Analysis Batch: 198279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[k]fluoranthene	50.0	43.4		ug/L		87	11 - 162
Benzoic acid	50.0	36.2		ug/L		72	10 - 74
Benzyl alcohol	50.0	40.4		ug/L		81	52 - 109
Bis(2-chloroethoxy)methane	50.0	45.9		ug/L		92	33 - 184
Bis(2-chloroethyl)ether	50.0	45.0		ug/L		90	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	52.8		ug/L		106	10 - 158
Butylbenzylphthalate	50.0	57.4		ug/L		115	10 - 152
Carbazole	50.0	43.6		ug/L		87	72 - 114
Chrysene	50.0	42.9		ug/L		86	17 - 168
Dibenz(a,h)anthracene	50.0	48.0		ug/L		96	10 - 200
Dibenzofuran	50.0	43.2		ug/L		86	64 - 106
Diethylphthalate	50.0	44.1		ug/L		88	10 - 120
Dimethylphthalate	50.0	42.3		ug/L		85	10 - 120
Di-n-butyl phthalate	50.0	46.8		ug/L		94	10 - 120
Di-n-octyl phthalate	50.0	57.5		ug/L		115	10 - 146
Diphenyl ether	50.0	47.0		ug/L		94	59 - 105
Fluoranthene	50.0	43.0		ug/L		86	26 - 137
Fluorene	50.0	42.5		ug/L		85	59 - 121
Hexachlorobenzene	50.0	45.1		ug/L		90	10 - 152
Hexachlorobutadiene	50.0	38.0		ug/L		76	24 - 120
Hexachlorocyclopentadiene	50.0	31.5		ug/L		63	10 - 79
Hexachloroethane	50.0	40.8		ug/L		82	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	45.1		ug/L		90	10 - 171
Isophorone	50.0	46.3		ug/L		93	21 - 196
Naphthalene	50.0	41.5		ug/L		83	21 - 133
n-Decane	50.0	36.3		ug/L		73	31 - 93
n-Docosane	50.0	48.1		ug/L		96	55 - 152
n-Eicosane	50.0	49.4		ug/L		99	49 - 151
n-Hexadecane	50.0	43.7		ug/L		87	50 - 127
Nitrobenzene	50.0	49.0		ug/L		98	35 - 180
N-Nitrosodimethylamine	50.0	29.1		ug/L		58	38 - 74
N-Nitrosodi-n-propylamine	50.0	41.6		ug/L		83	10 - 200
N-Nitrosodiphenylamine	42.5	40.8		ug/L		96	72 - 113
n-Octadecane	50.0	49.3		ug/L		99	59 - 133
n-Tetradecane	50.0	44.1		ug/L		88	46 - 113
Pentachlorophenol	100	66.8		ug/L		67	14 - 176
Phenanthrene	50.0	45.8		ug/L		92	54 - 120
Phenol	50.0	20.8		ug/L		42	10 - 120
Pyrene	50.0	44.3		ug/L		89	52 - 120
Pyridine	100	58.9	*+	ug/L		59	27 - 52

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*104*		*23 - 140*
2-Fluorobiphenyl (Surr)	*89*		*36 - 101*
2-Fluorophenol (Surr)	*64*		*10 - 77*
Nitrobenzene-d5 (Surr)	*102*		*49 - 106*
Phenol-d5 (Surr)	*43*		*10 - 59*
p-Terphenyl-d14 (Surr)	*101*		*26 - 119*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-196248/4-A
Matrix: Water
Analysis Batch: 198279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196248

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
N-Nitrosodiethylamine			50.0	44.4		ug/L		89	75 - 110		
N-Nitrosodi-n-butylamine			50.0	35.3		ug/L		71	57 - 101		
N-Nitrosopyrrolidine			50.0	45.3		ug/L		91	65 - 112		
o-Toluidine			50.0	36.6		ug/L		73	52 - 82		
Pentachlorobenzene			50.0	39.4		ug/L		79	27 - 108		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*99*		*23 - 140*
2-Fluorobiphenyl (Surr)	*80*		*36 - 101*
2-Fluorophenol (Surr)	*61*		*10 - 77*
Nitrobenzene-d5 (Surr)	*96*		*49 - 106*
Phenol-d5 (Surr)	*41*		*10 - 59*
p-Terphenyl-d14 (Surr)	*93*		*26 - 119*

Lab Sample ID: LCSD 410-196248/3-A
Matrix: Water
Analysis Batch: 198279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196248

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl			50.0	41.9		ug/L		84	52 - 106	3	30
1,2,4,5-Tetrachlorobenzene			50.0	39.1		ug/L		78	43 - 94	7	30
1,2,4-Trichlorobenzene			50.0	34.3		ug/L		69	44 - 142	11	30
1,2-Dichlorobenzene			50.0	37.6		ug/L		75	36 - 87	8	30
1,2-Diphenylhydrazine			50.0	47.0		ug/L		94	69 - 117	8	30
1,3-Dichlorobenzene			50.0	36.8		ug/L		74	30 - 85	10	30
1,4-Dichlorobenzene			50.0	37.5		ug/L		75	32 - 85	5	30
1,4-Dioxane			50.0	20.9		ug/L		42	30 - 60	4	30
1-Methylnaphthalene			50.0	39.4		ug/L		79	53 - 91	8	30
1-Methylphenanthrene			50.0	44.5		ug/L		89	56 - 128	7	30
2,2'-oxybis[1-chloropropane]			50.0	40.0		ug/L		80	48 - 110	11	30
2,3,4,6-Tetrachlorophenol			50.0	45.5		ug/L		91	72 - 115	3	30
2,3-Dichloroaniline			50.0	43.6		ug/L		87	65 - 118	5	30
2,4,5-Trichlorophenol			50.0	43.9		ug/L		88	70 - 110	5	30
2,4,6-Trichlorophenol			50.0	50.1		ug/L		100	37 - 144	1	30
2,4-Dichlorophenol			50.0	46.7		ug/L		93	39 - 135	7	30
2,4-Dimethylphenol			50.0	38.9		ug/L		78	32 - 120	11	30
2,4-Dinitrophenol			100	61.5		ug/L		61	10 - 191	16	30
2,4-Dinitrotoluene			50.0	50.9		ug/L		102	39 - 139	7	30
2,6-Dichlorophenol			50.0	46.0		ug/L		92	48 - 114	4	30
2,6-Dinitrotoluene			50.0	47.5		ug/L		95	50 - 158	6	30
2-Chloronaphthalene			50.0	35.9		ug/L		72	60 - 120	6	24
2-Chlorophenol			50.0	40.2		ug/L		80	23 - 134	5	30
2-Methylnaphthalene			50.0	37.6		ug/L		75	50 - 100	10	30
2-Methylphenol			50.0	39.0		ug/L		78	56 - 99	5	30
2-Nitroaniline			50.0	50.0		ug/L		100	71 - 119	5	30
2-Nitrophenol			50.0	57.4		ug/L		115	29 - 182	10	30
3,3'-Dichlorobenzidine			100	89.6		ug/L		90	10 - 200	18	30
3-Nitroaniline			50.0	43.4		ug/L		87	64 - 113	13	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-196248/3-A
Matrix: Water
Analysis Batch: 198279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196248

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	100	126		ug/L		126	10 - 181	6	30
4-Bromophenyl-phenylether	50.0	44.5		ug/L		89	53 - 127	8	30
4-Chloro-3-methylphenol	50.0	39.9		ug/L		80	22 - 147	11	30
4-Chloroaniline	50.0	35.0		ug/L		70	47 - 93	0	30
4-Chlorophenyl-phenylether	50.0	40.8		ug/L		82	25 - 158	2	30
4-Methylphenol	50.0	32.5		ug/L		65	47 - 96	6	30
4-Nitroaniline	50.0	44.9		ug/L		90	52 - 112	2	30
4-Nitrophenol	100	53.5		ug/L		54	10 - 132	0	30
Acenaphthene	50.0	40.9		ug/L		82	47 - 145	7	30
Acenaphthylene	50.0	40.7		ug/L		81	33 - 145	7	30
Acetophenone	50.0	36.7		ug/L		73	64 - 101	7	30
Aniline	50.0	33.7	*1	ug/L		67	24 - 79	34	30
Anthracene	50.0	42.2		ug/L		84	27 - 133	7	30
a-Terpineol	50.0	43.7		ug/L		87	55 - 122	8	30
Benzidine	100	ND	*-	ug/L		2	10 - 48	25	30
Benzo[a]anthracene	50.0	44.5		ug/L		89	33 - 143	8	30
Benzo[a]pyrene	50.0	39.4		ug/L		79	17 - 163	4	30
Benzo[b]fluoranthene	50.0	41.0		ug/L		82	24 - 159	9	30
Benzo[g,h,i]perylene	50.0	44.4		ug/L		89	10 - 200	6	30
Benzo[k]fluoranthene	50.0	41.3		ug/L		83	11 - 162	5	30
Benzoic acid	50.0	30.2		ug/L		60	10 - 74	18	30
Benzyl alcohol	50.0	38.0		ug/L		76	52 - 109	6	30
Bis(2-chloroethoxy)methane	50.0	43.1		ug/L		86	33 - 184	6	30
Bis(2-chloroethyl)ether	50.0	42.6		ug/L		85	12 - 158	5	30
Bis(2-ethylhexyl) phthalate	50.0	47.8		ug/L		96	10 - 158	10	30
Butylbenzylphthalate	50.0	53.0		ug/L		106	10 - 152	8	30
Carbazole	50.0	40.4		ug/L		81	72 - 114	8	30
Chrysene	50.0	41.2		ug/L		82	17 - 168	4	30
Dibenz(a,h)anthracene	50.0	45.0		ug/L		90	10 - 200	6	30
Dibenzofuran	50.0	40.9		ug/L		82	64 - 106	5	30
Diethylphthalate	50.0	42.3		ug/L		85	10 - 120	4	30
Dimethylphthalate	50.0	40.6		ug/L		81	10 - 120	4	30
Di-n-butyl phthalate	50.0	43.1		ug/L		86	10 - 120	8	30
Di-n-octyl phthalate	50.0	53.0		ug/L		106	10 - 146	8	30
Diphenyl ether	50.0	43.4		ug/L		87	59 - 105	8	30
Fluoranthene	50.0	41.1		ug/L		82	26 - 137	5	30
Fluorene	50.0	40.1		ug/L		80	59 - 121	6	30
Hexachlorobenzene	50.0	41.8		ug/L		84	10 - 152	8	30
Hexachlorobutadiene	50.0	36.1		ug/L		72	24 - 120	5	30
Hexachlorocyclopentadiene	50.0	28.8		ug/L		58	10 - 79	9	30
Hexachloroethane	50.0	37.0		ug/L		74	40 - 120	10	30
Indeno[1,2,3-cd]pyrene	50.0	41.7		ug/L		83	10 - 171	8	30
Isophorone	50.0	42.0		ug/L		84	21 - 196	10	30
Naphthalene	50.0	38.9		ug/L		78	21 - 133	7	30
n-Decane	50.0	35.2		ug/L		70	31 - 93	3	30
n-Docosane	50.0	42.1		ug/L		84	55 - 152	13	30
n-Eicosane	50.0	45.2		ug/L		90	49 - 151	9	30
n-Hexadecane	50.0	40.4		ug/L		81	50 - 127	8	30
Nitrobenzene	50.0	43.3		ug/L		87	35 - 180	12	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-196248/3-A
Matrix: Water
Analysis Batch: 198279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196248

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodimethylamine			50.0	26.4		ug/L		53	38 - 74	10	30
N-Nitrosodi-n-propylamine			50.0	38.2		ug/L		76	10 - 200	9	30
N-Nitrosodiphenylamine			42.5	38.8		ug/L		91	72 - 113	5	30
n-Octadecane			50.0	44.7		ug/L		89	59 - 133	10	30
n-Tetradecane			50.0	41.9		ug/L		84	46 - 113	5	30
Pentachlorophenol			100	59.5		ug/L		59	14 - 176	12	30
Phenanthrene			50.0	43.3		ug/L		87	54 - 120	6	30
Phenol			50.0	20.3		ug/L		41	10 - 120	3	30
Pyrene			50.0	41.0		ug/L		82	52 - 120	8	30
Pyridine			100	56.8	*+	ug/L		57	27 - 52	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*97*		*23 - 140*
2-Fluorobiphenyl (Surr)	*86*		*36 - 101*
2-Fluorophenol (Surr)	*60*		*10 - 77*
Nitrobenzene-d5 (Surr)	*92*		*49 - 106*
Phenol-d5 (Surr)	*40*		*10 - 59*
p-Terphenyl-d14 (Surr)	*94*		*26 - 119*

Lab Sample ID: LCSD 410-196248/5-A
Matrix: Water
Analysis Batch: 198279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196248

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiethylamine			50.0	44.8		ug/L		90	75 - 110	1	30
N-Nitrosodi-n-butylamine			50.0	36.1		ug/L		72	57 - 101	2	30
N-Nitrosopyrrolidine			50.0	44.7		ug/L		89	65 - 112	1	30
o-Toluidine			50.0	36.7		ug/L		73	52 - 82	0	30
Pentachlorobenzene			50.0	43.3		ug/L		87	27 - 108	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*104*		*23 - 140*
2-Fluorobiphenyl (Surr)	*86*		*36 - 101*
2-Fluorophenol (Surr)	*61*		*10 - 77*
Nitrobenzene-d5 (Surr)	*98*		*49 - 106*
Phenol-d5 (Surr)	*40*		*10 - 59*
p-Terphenyl-d14 (Surr)	*99*		*26 - 119*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 410-194175/4
Matrix: Water
Analysis Batch: 194175

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	ND		50	23	ug/L			11/15/21 13:36	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: MB 410-194175/4
Matrix: Water
Analysis Batch: 194175

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	106		63 - 135		11/15/21 13:36	1

Lab Sample ID: LCS 410-194175/5
Matrix: Water
Analysis Batch: 194175

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (1C)	1100	1100		ug/L		100	70 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid) (1C)	97		63 - 135

Lab Sample ID: LCSD 410-194175/6
Matrix: Water
Analysis Batch: 194175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (1C)	1100	1100		ug/L		100	70 - 123	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene (fid) (1C)	96		63 - 135

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-194774/1-A
Matrix: Water
Analysis Batch: 194778

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		11/15/21 07:00	11/15/21 08:44	1
Ethene (1C)	ND		5.0	1.0	ug/L		11/15/21 07:00	11/15/21 08:44	1
Methane (1C)	ND		5.0	3.0	ug/L		11/15/21 07:00	11/15/21 08:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Propene (1C)	105		28 - 130	11/15/21 07:00	11/15/21 08:44	1

Lab Sample ID: LCS 410-194774/2-A
Matrix: Water
Analysis Batch: 194778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane (1C)	59.4	60.2		ug/L		101	85 - 115
Ethene (1C)	60.4	59.6		ug/L		99	83 - 115
Methane (1C)	59.4	57.3		ug/L		97	85 - 115

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 410-194774/2-A
Matrix: Water
Analysis Batch: 194778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194774

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Propene (1C)	103		28 - 130

Lab Sample ID: LCSD 410-194774/3-A
Matrix: Water
Analysis Batch: 194778

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 194774

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane (1C)			59.4	59.3		ug/L		100	85 - 115	1	20
Ethene (1C)			60.4	59.4		ug/L		98	83 - 115	0	20
Methane (1C)			59.4	56.5		ug/L		95	85 - 115	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Propene (1C)	102		28 - 130

Lab Sample ID: MB 410-195145/1-A
Matrix: Water
Analysis Batch: 195161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		11/16/21 07:42	11/16/21 08:31	1
Ethene (1C)	ND		5.0	1.0	ug/L		11/16/21 07:42	11/16/21 08:31	1
Methane (1C)	ND		5.0	3.0	ug/L		11/16/21 07:42	11/16/21 08:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Propene (1C)	102		28 - 130	11/16/21 07:42	11/16/21 08:31	1

Lab Sample ID: LCS 410-195145/2-A
Matrix: Water
Analysis Batch: 195161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane (1C)			59.4	58.9		ug/L		99	85 - 115
Ethene (1C)			60.4	59.9		ug/L		99	83 - 115
Methane (1C)			59.4	62.3		ug/L		105	85 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Propene (1C)	95		28 - 130

Lab Sample ID: LCSD 410-195145/3-A
Matrix: Water
Analysis Batch: 195161

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane (1C)			59.4	59.9		ug/L		101	85 - 115	2	20
Ethene (1C)			60.4	60.9		ug/L		101	83 - 115	2	20
Methane (1C)			59.4	64.1		ug/L		108	85 - 115	3	20

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 410-195145/3-A
Matrix: Water
Analysis Batch: 195161

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195145

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Propene (1C)	*95*		*28 - 130*

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 410-195128/1-A
Matrix: Water
Analysis Batch: 195651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	ND		0.010	0.0050	ug/L		11/16/21 09:35	11/17/21 07:23	1
alpha-BHC (1C)	ND		0.030	0.012	ug/L		11/16/21 09:35	11/17/21 07:23	1
beta-BHC (1C)	ND		0.10	0.046	ug/L		11/16/21 09:35	11/17/21 07:23	1
alpha-Chlordane (1C)	ND		0.010	0.0060	ug/L		11/16/21 09:35	11/17/21 07:23	1
delta-BHC (1C)	ND		0.030	0.011	ug/L		11/16/21 09:35	11/17/21 07:23	1
Dieldrin (1C)	ND		0.020	0.0080	ug/L		11/16/21 09:35	11/17/21 07:23	1
Endosulfan I (1C)	ND		0.010	0.0030	ug/L		11/16/21 09:35	11/17/21 07:23	1
Endosulfan II (1C)	ND		0.020	0.0098	ug/L		11/16/21 09:35	11/17/21 07:23	1
Endosulfan sulfate (1C)	ND		0.020	0.010	ug/L		11/16/21 09:35	11/17/21 07:23	1
Endrin (1C)	ND		0.10	0.0090	ug/L		11/16/21 09:35	11/17/21 07:23	1
Endrin aldehyde (1C)	ND		0.020	0.0091	ug/L		11/16/21 09:35	11/17/21 07:23	1
gamma-BHC (Lindane) (1C)	ND		0.010	0.0052	ug/L		11/16/21 09:35	11/17/21 07:23	1
Heptachlor (1C)	ND		0.010	0.0080	ug/L		11/16/21 09:35	11/17/21 07:23	1
Heptachlor epoxide (1C)	ND		0.10	0.0050	ug/L		11/16/21 09:35	11/17/21 07:23	1
4,4'-DDD (1C)	ND		0.020	0.0090	ug/L		11/16/21 09:35	11/17/21 07:23	1
4,4'-DDE (1C)	ND		0.040	0.020	ug/L		11/16/21 09:35	11/17/21 07:23	1
4,4'-DDT (1C)	ND		0.020	0.010	ug/L		11/16/21 09:35	11/17/21 07:23	1
Toxaphene (1C)	ND		1.0	0.36	ug/L		11/16/21 09:35	11/17/21 07:23	1
Chlordane (n.o.s.) (1C)	ND		0.50	0.23	ug/L		11/16/21 09:35	11/17/21 07:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	*46*		*32 - 149*	*11/16/21 09:35*	*11/17/21 07:23*	*1*
Tetrachloro-m-xylene (1C)	*52*		*29 - 129*	*11/16/21 09:35*	*11/17/21 07:23*	*1*

Lab Sample ID: LCS 410-195128/2-A
Matrix: Water
Analysis Batch: 195651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin (1C)	0.101	0.0656		ug/L		65	42 - 140
alpha-BHC (1C)	0.101	0.0639		ug/L		63	37 - 140
beta-BHC (1C)	0.100	0.0766	J	ug/L		77	17 - 140
alpha-Chlordane (1C)	0.100	0.0769		ug/L		77	45 - 147
delta-BHC (1C)	0.100	0.0809		ug/L		81	19 - 140
Dieldrin (1C)	0.200	0.172		ug/L		86	36 - 146
Endosulfan I (1C)	0.101	0.0806		ug/L		80	45 - 153
Endosulfan II (1C)	0.201	0.194		ug/L		96	10 - 200
Endosulfan sulfate (1C)	0.201	0.189		ug/L		94	26 - 144
Endrin (1C)	0.200	0.180		ug/L		90	30 - 147

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 410-195128/2-A
Matrix: Water
Analysis Batch: 195651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin aldehyde (1C)	0.201	0.165		ug/L		82	60 - 140
gamma-BHC (Lindane) (1C)	0.100	0.0723		ug/L		72	32 - 140
Heptachlor (1C)	0.101	0.0696		ug/L		69	34 - 140
Heptachlor epoxide (1C)	0.100	0.0797	J	ug/L		80	37 - 142
4,4'-DDD (1C)	0.201	0.169		ug/L		84	31 - 141
4,4'-DDE (1C)	0.201	0.153		ug/L		76	30 - 146
4,4'-DDT (1C)	0.201	0.187		ug/L		93	25 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*39*		*32 - 149*
Tetrachloro-m-xylene (1C)	*52*		*29 - 129*

Lab Sample ID: LCSD 410-195128/3-A
Matrix: Water
Analysis Batch: 195651

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195128

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin (1C)	0.101	0.0706		ug/L		70	42 - 140	7	35
alpha-BHC (1C)	0.101	0.0596		ug/L		59	37 - 140	7	36
beta-BHC (1C)	0.100	0.0765	J	ug/L		76	17 - 140	0	44
alpha-Chlordane (1C)	0.100	0.0843		ug/L		84	45 - 147	9	35
delta-BHC (1C)	0.100	0.0774		ug/L		77	19 - 140	4	52
Dieldrin (1C)	0.200	0.177		ug/L		89	36 - 146	3	49
Endosulfan I (1C)	0.101	0.0835		ug/L		82	45 - 153	4	28
Endosulfan II (1C)	0.201	0.184		ug/L		92	10 - 200	5	53
Endosulfan sulfate (1C)	0.201	0.185		ug/L		92	26 - 144	2	38
Endrin (1C)	0.200	0.185		ug/L		92	30 - 147	2	48
Endrin aldehyde (1C)	0.201	0.168		ug/L		84	60 - 140	2	30
gamma-BHC (Lindane) (1C)	0.100	0.0727		ug/L		73	32 - 140	1	39
Heptachlor (1C)	0.101	0.0733		ug/L		72	34 - 140	4	43
Heptachlor epoxide (1C)	0.100	0.0834	J	ug/L		83	37 - 142	4	26
4,4'-DDD (1C)	0.201	0.179		ug/L		89	31 - 141	6	39
4,4'-DDE (1C)	0.201	0.166		ug/L		82	30 - 146	8	35
4,4'-DDT (1C)	0.201	0.210		ug/L		104	25 - 160	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*49*		*32 - 149*
Tetrachloro-m-xylene (1C)	*57*		*29 - 129*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-195129/1-A
Matrix: Water
Analysis Batch: 195921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195129

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.50	0.096	ug/L		11/16/21 09:37	11/17/21 09:13	1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 410-195129/1-A
Matrix: Water
Analysis Batch: 195921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195129

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221 (1C)	ND		0.50	0.21	ug/L		11/16/21 09:37	11/17/21 09:13	1
PCB-1232 (1C)	ND		0.50	0.13	ug/L		11/16/21 09:37	11/17/21 09:13	1
PCB-1242 (1C)	ND		0.50	0.20	ug/L		11/16/21 09:37	11/17/21 09:13	1
PCB-1248 (1C)	ND		0.50	0.21	ug/L		11/16/21 09:37	11/17/21 09:13	1
PCB-1254 (1C)	ND		0.50	0.16	ug/L		11/16/21 09:37	11/17/21 09:13	1
PCB-1260 (1C)	ND		0.50	0.079	ug/L		11/16/21 09:37	11/17/21 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*67*		*10 - 127*	*11/16/21 09:37*	*11/17/21 09:13*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*66*		*10 - 127*	*11/16/21 09:37*	*11/17/21 09:13*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*75*		*18 - 115*	*11/16/21 09:37*	*11/17/21 09:13*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*68*		*18 - 115*	*11/16/21 09:37*	*11/17/21 09:13*	*1*

Lab Sample ID: LCS 410-195129/2-A
Matrix: Water
Analysis Batch: 195921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195129

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016 (1C)			5.02	4.34		ug/L		86	50 - 140		
PCB-1260 (1C)			5.04	5.07		ug/L		101	10 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*89*		*10 - 127*
DCB Decachlorobiphenyl (Surr) (2C)	*84*		*10 - 127*
Tetrachloro-m-xylene (Surr) (1C)	*63*		*18 - 115*
Tetrachloro-m-xylene (Surr) (2C)	*59*		*18 - 115*

Lab Sample ID: LCSD 410-195129/3-A
Matrix: Water
Analysis Batch: 195921

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195129

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016 (1C)			5.02	4.35		ug/L		87	50 - 140	0	36
PCB-1260 (1C)			5.04	4.96		ug/L		98	10 - 140	2	38

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*93*		*10 - 127*
DCB Decachlorobiphenyl (Surr) (2C)	*86*		*10 - 127*
Tetrachloro-m-xylene (Surr) (1C)	*66*		*18 - 115*
Tetrachloro-m-xylene (Surr) (2C)	*61*		*18 - 115*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 410-196131/1-A
Matrix: Water
Analysis Batch: 196357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	ND		0.20	0.074	mg/L		11/17/21 21:00	11/18/21 13:18	1
>C28-C35 (1C)	ND		0.20	0.074	mg/L		11/17/21 21:00	11/18/21 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*75*		*27 - 143*	*11/17/21 21:00*	*11/18/21 13:18*	*1*

Lab Sample ID: LCS 410-196131/2-A
Matrix: Water
Analysis Batch: 196357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196131

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DRO (C10-C28) (1C)			1.60	1.29		mg/L		80	32 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o- terphenyl (Surr) (1C)	*85*		*27 - 143*

Lab Sample ID: LCSD 410-196131/3-A
Matrix: Water
Analysis Batch: 196357

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 196131

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (C10-C28) (1C)			1.60	1.21		mg/L		76	32 - 131	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o- terphenyl (Surr) (1C)	*81*		*27 - 143*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-198728/5
Matrix: Water
Analysis Batch: 198728

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.30	mg/L			11/24/21 14:44	1
Chloride	ND		0.40	0.20	mg/L			11/24/21 14:44	1

Lab Sample ID: LCS 410-198728/3
Matrix: Water
Analysis Batch: 198728

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			7.50	7.84		mg/L		105	90 - 110		
Chloride			3.00	2.82		mg/L		94	90 - 110		

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 410-198728/4
Matrix: Water
Analysis Batch: 198728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate			7.50	7.78		mg/L		104	90 - 110	1	20
Chloride			3.00	2.80		mg/L		93	90 - 110	1	20

Lab Sample ID: MB 410-199140/5
Matrix: Water
Analysis Batch: 199140

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.40	0.20	mg/L			11/29/21 11:40	1

Lab Sample ID: LCS 410-199140/3
Matrix: Water
Analysis Batch: 199140

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			3.00	2.73		mg/L		91	90 - 110

Lab Sample ID: LCSD 410-199140/4
Matrix: Water
Analysis Batch: 199140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			3.00	2.73		mg/L		91	90 - 110	0	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-196004/1-A
Matrix: Water
Analysis Batch: 197231

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 196004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		11/17/21 16:00	11/20/21 02:30	1
Aluminum	ND		25	20	ug/L		11/17/21 16:00	11/20/21 02:30	1
Arsenic	ND		2.0	0.68	ug/L		11/17/21 16:00	11/20/21 02:30	1
Barium	ND		2.0	0.75	ug/L		11/17/21 16:00	11/20/21 02:30	1
Cadmium	ND		0.50	0.15	ug/L		11/17/21 16:00	11/20/21 02:30	1
Calcium	ND		100	74	ug/L		11/17/21 16:00	11/20/21 02:30	1
Chromium	ND		2.0	0.33	ug/L		11/17/21 16:00	11/20/21 02:30	1
Cobalt	ND		0.50	0.16	ug/L		11/17/21 16:00	11/20/21 02:30	1
Copper	ND		1.0	0.36	ug/L		11/17/21 16:00	11/20/21 02:30	1
Iron	ND		50	23	ug/L		11/17/21 16:00	11/20/21 02:30	1
Lead	ND		0.50	0.071	ug/L		11/17/21 16:00	11/20/21 02:30	1
Magnesium	ND		50	10	ug/L		11/17/21 16:00	11/20/21 02:30	1
Manganese	ND		2.0	0.63	ug/L		11/17/21 16:00	11/20/21 02:30	1
Nickel	ND		1.0	0.60	ug/L		11/17/21 16:00	11/20/21 02:30	1
Potassium	ND		200	110	ug/L		11/17/21 16:00	11/20/21 02:30	1
Selenium	ND		1.0	0.28	ug/L		11/17/21 16:00	11/20/21 02:30	1
Silver	ND		0.50	0.17	ug/L		11/17/21 16:00	11/20/21 02:30	1
Sodium	ND		200	50	ug/L		11/17/21 16:00	11/20/21 02:30	1
Thallium	ND		0.50	0.13	ug/L		11/17/21 16:00	11/20/21 02:30	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-196004/1-A
Matrix: Water
Analysis Batch: 197231

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 196004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		4.0	0.79	ug/L		11/17/21 16:00	11/20/21 02:30	1
Zinc	ND		10	6.2	ug/L		11/17/21 16:00	11/20/21 02:30	1

Lab Sample ID: MB 410-196004/1-A
Matrix: Water
Analysis Batch: 199079

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 196004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.50	0.12	ug/L		11/17/21 16:00	11/29/21 08:53	1

Lab Sample ID: LCS 410-196004/2-A
Matrix: Water
Analysis Batch: 197231

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 196004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	100	98.6		ug/L		99	85 - 115
Aluminum	5000	4960		ug/L		99	85 - 115
Arsenic	500	446		ug/L		89	85 - 115
Barium	500	510		ug/L		102	85 - 115
Cadmium	50.0	49.7		ug/L		99	85 - 115
Calcium	5000	4860		ug/L		97	85 - 115
Chromium	500	483		ug/L		96	85 - 115
Cobalt	500	466	E	ug/L		93	85 - 115
Copper	500	456		ug/L		91	85 - 115
Iron	5000	4770		ug/L		95	85 - 115
Lead	50.0	51.4		ug/L		103	85 - 115
Magnesium	5000	4870		ug/L		97	85 - 115
Manganese	500	498		ug/L		100	85 - 115
Nickel	500	459		ug/L		92	85 - 115
Potassium	5000	5090		ug/L		102	85 - 115
Selenium	100	93.3		ug/L		93	85 - 115
Silver	50.0	49.9		ug/L		100	85 - 115
Sodium	5000	5020		ug/L		100	85 - 115
Thallium	100	104		ug/L		104	85 - 115
Vanadium	500	487		ug/L		97	85 - 115
Zinc	500	472		ug/L		94	85 - 115

Lab Sample ID: LCS 410-196004/2-A
Matrix: Water
Analysis Batch: 199079

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 196004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	50.0	53.6		ug/L		107	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-195960/1-A
Matrix: Water
Analysis Batch: 196134

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/17/21 14:55	11/17/21 20:01	1

Lab Sample ID: LCS 410-195960/2-A
Matrix: Water
Analysis Batch: 196134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00100	0.00112		mg/L		112	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-195570/1
Matrix: Water
Analysis Batch: 195570

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			11/16/21 19:37	1

Lab Sample ID: LCS 410-195570/2
Matrix: Water
Analysis Batch: 195570

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	34.50		mg/L		86	78 - 114

Lab Sample ID: LCSD 410-195570/3
Matrix: Water
Analysis Batch: 195570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	31.40		mg/L		79	78 - 114	9	13

Lab Sample ID: 410-63032-2 MS
Matrix: Surface Water
Analysis Batch: 195570

Client Sample ID: RECEIVING-WATER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	1.9	J	43.5	38.26		mg/L		84	78 - 114

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-194358/3
Matrix: Water
Analysis Batch: 194358

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			11/12/21 17:50	1

Method: 180.1 - Turbidity, Nephelometric (Continued)

Lab Sample ID: LCS 410-194358/4
Matrix: Water
Analysis Batch: 194358

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Turbidity	10.0	9.8		NTU		98	90 - 104

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-195904/33
Matrix: Water
Analysis Batch: 195904

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			11/16/21 20:25	1

Lab Sample ID: LCS 410-195904/35
Matrix: Water
Analysis Batch: 195904

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	189	165		mg/L		88	82 - 106

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-195374/4
Matrix: Water
Analysis Batch: 195374

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			11/15/21 21:29	1

Lab Sample ID: LCS 410-195374/5
Matrix: Water
Analysis Batch: 195374

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Hardness	40.0	40.5		mg/L		101	91 - 108

Lab Sample ID: MB 410-196914/4
Matrix: Water
Analysis Batch: 196914

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			11/18/21 20:44	1

Lab Sample ID: LCS 410-196914/5
Matrix: Water
Analysis Batch: 196914

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Hardness	40.0	39.1		mg/L		98	91 - 108

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-195905/33
Matrix: Water
Analysis Batch: 195905

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	3.65	J	5.0	1.7	umhos/cm			11/16/21 20:25	1

Lab Sample ID: LCS 410-195905/36
Matrix: Water
Analysis Batch: 195905

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Specific Conductance			147	149		umhos/cm		102	97 - 103		

Method: 2540C-2011 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-195137/1
Matrix: Water
Analysis Batch: 195137

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			11/16/21 07:19	1

Lab Sample ID: LCS 410-195137/2
Matrix: Water
Analysis Batch: 195137

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			200	198		mg/L		99	72 - 127		

Method: 2540D-2011 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-194412/1
Matrix: Water
Analysis Batch: 194412

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.0	1.0	mg/L			11/15/21 01:35	1

Lab Sample ID: LCS 410-194412/2
Matrix: Water
Analysis Batch: 194412

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			150	149		mg/L		99	89 - 105		

Method: 2540F-2011 - Solids, Settleable

Lab Sample ID: MB 410-194394/1
Matrix: Water
Analysis Batch: 194394

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			11/12/21 19:25	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-199211/2-A
Matrix: Water
Analysis Batch: 199704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		11/29/21 13:00	11/30/21 09:39	1

Lab Sample ID: LCS 410-199211/1-A
Matrix: Water
Analysis Batch: 199704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	4.00	4.39		mg/L		110	90 - 110

Lab Sample ID: 410-63032-1 MS
Matrix: Groundwater
Analysis Batch: 199704

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA
Prep Batch: 199211

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	1.7	F1	4.00	5.24	F1	mg/L		89	90 - 110

Lab Sample ID: 410-63032-2 MS
Matrix: Surface Water
Analysis Batch: 199704

Client Sample ID: RECEIVING-WATER-002
Prep Type: Total/NA
Prep Batch: 199211

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.79	J	4.00	4.57		mg/L		94	90 - 110

Lab Sample ID: 410-63032-1 DU
Matrix: Groundwater
Analysis Batch: 199704

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA
Prep Batch: 199211

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	1.7	F1	1.17	F5	mg/L		35	20

Lab Sample ID: 410-63032-2 DU
Matrix: Surface Water
Analysis Batch: 199704

Client Sample ID: RECEIVING-WATER-002
Prep Type: Total/NA
Prep Batch: 199211

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	0.79	J	0.696	J	mg/L		13	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-197074/2-A
Matrix: Water
Analysis Batch: 197683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 197074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		11/19/21 20:09	11/22/21 12:37	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 410-197074/1-A
Matrix: Water
Analysis Batch: 197683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 197074

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Phosphorus as PO4			4.07	4.27		mg/L		105	90 - 110		

Lab Sample ID: 410-63032-1 MS
Matrix: Groundwater
Analysis Batch: 197683

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA
Prep Batch: 197074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Phosphorus as PO4	ND	F1	6.04	6.69	F1	mg/L		111	90 - 110		

Lab Sample ID: 410-63032-2 DU
Matrix: Surface Water
Analysis Batch: 197683

Client Sample ID: RECEIVING-WATER-002
Prep Type: Total/NA
Prep Batch: 197074

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Phosphorus as PO4	0.44			0.450		mg/L				3	4

Method: 410.4 - COD

Lab Sample ID: MB 410-196462/4
Matrix: Water
Analysis Batch: 196462

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			11/17/21 21:00	1

Lab Sample ID: LCS 410-196462/5
Matrix: Water
Analysis Batch: 196462

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			500	518		mg/L		104	94 - 110		

Lab Sample ID: MB 410-197657/4
Matrix: Water
Analysis Batch: 197657

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			11/19/21 21:14	1

Lab Sample ID: LCS 410-197657/5
Matrix: Water
Analysis Batch: 197657

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			500	515		mg/L		103	94 - 110		

Method: 410.4 - COD (Continued)

Lab Sample ID: 410-63032-2 MS
Matrix: Surface Water
Analysis Batch: 197657

Client Sample ID: RECEIVING-WATER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	310	J	4000	4150		mg/L		96	94 - 110

Lab Sample ID: 410-63032-2 DU
Matrix: Surface Water
Analysis Batch: 197657

Client Sample ID: RECEIVING-WATER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	310	J	1930	F3	mg/L		145	9

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-198143/19
Matrix: Water
Analysis Batch: 198143

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/23/21 10:06	1

Lab Sample ID: MB 410-198143/52
Matrix: Water
Analysis Batch: 198143

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/23/21 11:44	1

Lab Sample ID: LCS 410-198143/17
Matrix: Water
Analysis Batch: 198143

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.250	0.241		mg/L		96	90 - 110

Lab Sample ID: LCS 410-198143/50
Matrix: Water
Analysis Batch: 198143

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.250	0.247		mg/L		98	90 - 110

Lab Sample ID: LCSD 410-198143/18
Matrix: Water
Analysis Batch: 198143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.250	0.251		mg/L		100	90 - 110	4	6

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 410-198143/51
Matrix: Water
Analysis Batch: 198143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total			0.250	0.250		mg/L		100	90 - 110	1	6

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-195906/34
Matrix: Water
Analysis Batch: 195906

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		S.U.		100	95 - 105		

Method: 5210 B-2011 - BOD, 5-Day

Lab Sample ID: SCB 410-195846/4
Matrix: Water
Analysis Batch: 195846

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.667		0.0000010	0.0000010	mg/L			11/12/21 14:48	1

Lab Sample ID: USB 410-195846/2
Matrix: Water
Analysis Batch: 195846

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.0200		0.0000010	0.0000010	mg/L			11/12/21 14:48	1

Lab Sample ID: LCS 410-195846/5
Matrix: Water
Analysis Batch: 195846

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Biochemical Oxygen Demand			198	193		mg/L		97	85 - 115		

GC/MS VOA

Analysis Batch: 194089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	624.1	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	624.1	
410-63032-3	QAQC_TB	Total/NA	Water	624.1	
MB 410-194089/5	Method Blank	Total/NA	Water	624.1	
LCS 410-194089/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-194089/1004	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 194676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	8260C	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	8260C	
MB 410-194676/6	Method Blank	Total/NA	Water	8260C	
LCS 410-194676/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 195556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-3	QAQC_TB	Total/NA	Water	8260C	
MB 410-195556/6	Method Blank	Total/NA	Water	8260C	
LCS 410-195556/4	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 196248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	625.1	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	625.1	
MB 410-196248/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-196248/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCS 410-196248/4-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-196248/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
LCSD 410-196248/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 198279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	625.1	196248
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	625.1	196248
MB 410-196248/1-A	Method Blank	Total/NA	Water	625.1	196248
LCS 410-196248/2-A	Lab Control Sample	Total/NA	Water	625.1	196248
LCS 410-196248/4-A	Lab Control Sample	Total/NA	Water	625.1	196248
LCSD 410-196248/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	196248
LCSD 410-196248/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	196248

GC VOA

Analysis Batch: 194175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	8015C	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	8015C	
MB 410-194175/4	Method Blank	Total/NA	Water	8015C	
LCS 410-194175/5	Lab Control Sample	Total/NA	Water	8015C	
LCSD 410-194175/6	Lab Control Sample Dup	Total/NA	Water	8015C	

GC VOA

Prep Batch: 194774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	RSK-175	
MB 410-194774/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-194774/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-194774/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 194778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	194774
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	RSK-175	194774
MB 410-194774/1-A	Method Blank	Total/NA	Water	RSK-175	194774
LCS 410-194774/2-A	Lab Control Sample	Total/NA	Water	RSK-175	194774
LCSD 410-194774/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	194774

Prep Batch: 195145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1 - DL	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	
MB 410-195145/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-195145/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-195145/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 195161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1 - DL	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	195145
MB 410-195145/1-A	Method Blank	Total/NA	Water	RSK-175	195145
LCS 410-195145/2-A	Lab Control Sample	Total/NA	Water	RSK-175	195145
LCSD 410-195145/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	195145

GC Semi VOA

Prep Batch: 195128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	608.3	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	608.3	
MB 410-195128/1-A	Method Blank	Total/NA	Water	608.3	
LCS 410-195128/2-A	Lab Control Sample	Total/NA	Water	608.3	
LCSD 410-195128/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	

Prep Batch: 195129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	608.3	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	608.3	
MB 410-195129/1-A	Method Blank	Total/NA	Water	608.3	
LCS 410-195129/2-A	Lab Control Sample	Total/NA	Water	608.3	
LCSD 410-195129/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	

Analysis Batch: 195651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	608.3	195128
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	608.3	195128
MB 410-195128/1-A	Method Blank	Total/NA	Water	608.3	195128

GC Semi VOA (Continued)

Analysis Batch: 195651 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-195128/2-A	Lab Control Sample	Total/NA	Water	608.3	195128
LCSD 410-195128/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	195128

Analysis Batch: 195921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	608.3	195129
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	608.3	195129
MB 410-195129/1-A	Method Blank	Total/NA	Water	608.3	195129
LCS 410-195129/2-A	Lab Control Sample	Total/NA	Water	608.3	195129
LCSD 410-195129/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	195129

Prep Batch: 196131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	3510C	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	3510C	
MB 410-196131/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-196131/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-196131/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 196357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	8015C	196131
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	8015C	196131
MB 410-196131/1-A	Method Blank	Total/NA	Water	8015C	196131
LCS 410-196131/2-A	Lab Control Sample	Total/NA	Water	8015C	196131
LCSD 410-196131/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	196131

HPLC/IC

Analysis Batch: 198728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 410-198728/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-198728/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-198728/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 199140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 410-199140/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-199140/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-199140/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 195960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	245.1	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	245.1	
MB 410-195960/1-A	Method Blank	Total/NA	Water	245.1	

Metals (Continued)

Prep Batch: 195960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-195960/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 196004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	
410-63032-2	RECEIVING-WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	
MB 410-196004/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-196004/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Analysis Batch: 196134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	245.1	195960
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	245.1	195960
MB 410-195960/1-A	Method Blank	Total/NA	Water	245.1	195960
LCS 410-195960/2-A	Lab Control Sample	Total/NA	Water	245.1	195960

Analysis Batch: 197231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	196004
410-63032-2	RECEIVING-WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	196004
410-63032-2	RECEIVING-WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	196004
410-63032-2	RECEIVING-WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	196004
MB 410-196004/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	196004
LCS 410-196004/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	196004

Analysis Batch: 198759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	196004

Analysis Batch: 199079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	196004
410-63032-2	RECEIVING-WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	196004
MB 410-196004/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	196004
LCS 410-196004/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	196004

General Chemistry

Analysis Batch: 194275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	353.2	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	353.2	

Analysis Batch: 194281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	SM 2330B	

Analysis Batch: 194358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	180.1	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	180.1	

General Chemistry (Continued)

Analysis Batch: 194358 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-194358/3	Method Blank	Total/NA	Water	180.1	
LCS 410-194358/4	Lab Control Sample	Total/NA	Water	180.1	

Analysis Batch: 194394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	2540F-2011	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	2540F-2011	
MB 410-194394/1	Method Blank	Total/NA	Water	2540F-2011	

Analysis Batch: 194412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	2540D-2011	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	2540D-2011	
MB 410-194412/1	Method Blank	Total/NA	Water	2540D-2011	
LCS 410-194412/2	Lab Control Sample	Total/NA	Water	2540D-2011	

Analysis Batch: 195137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	2540C-2011	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	2540C-2011	
MB 410-195137/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 410-195137/2	Lab Control Sample	Total/NA	Water	2540C-2011	

Analysis Batch: 195374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	2340C-2011	
MB 410-195374/4	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-195374/5	Lab Control Sample	Total/NA	Water	2340C-2011	

Analysis Batch: 195570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	1664A	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	1664A	
MB 410-195570/1	Method Blank	Total/NA	Water	1664A	
LCS 410-195570/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-195570/3	Lab Control Sample Dup	Total/NA	Water	1664A	
410-63032-2 MS	RECEIVING-WATER-002	Total/NA	Surface Water	1664A	

Analysis Batch: 195846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	5210 B-2011	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	5210 B-2011	
SCB 410-195846/4	Method Blank	Total/NA	Water	5210 B-2011	
USB 410-195846/2	Method Blank	Total/NA	Water	5210 B-2011	
LCS 410-195846/5	Lab Control Sample	Total/NA	Water	5210 B-2011	

Analysis Batch: 195904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	2320B-2011	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	2320B-2011	
MB 410-195904/33	Method Blank	Total/NA	Water	2320B-2011	

General Chemistry (Continued)

Analysis Batch: 195904 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-195904/35	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 195905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	2510B-2011	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	2510B-2011	
MB 410-195905/33	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-195905/36	Lab Control Sample	Total/NA	Water	2510B-2011	

Analysis Batch: 195906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	4500 H+ B-2011	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	4500 H+ B-2011	
LCS 410-195906/34	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 196462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	410.4	
MB 410-196462/4	Method Blank	Total/NA	Water	410.4	
LCS 410-196462/5	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 196914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	2340C-2011	
MB 410-196914/4	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-196914/5	Lab Control Sample	Total/NA	Water	2340C-2011	

Prep Batch: 197074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	365.1	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	365.1	
MB 410-197074/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-197074/1-A	Lab Control Sample	Total/NA	Water	365.1	
410-63032-1 MS	ORS-INFLUENT	Total/NA	Groundwater	365.1	
410-63032-2 DU	RECEIVING-WATER-002	Total/NA	Surface Water	365.1	

Analysis Batch: 197657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	410.4	
MB 410-197657/4	Method Blank	Total/NA	Water	410.4	
LCS 410-197657/5	Lab Control Sample	Total/NA	Water	410.4	
410-63032-2 MS	RECEIVING-WATER-002	Total/NA	Surface Water	410.4	
410-63032-2 DU	RECEIVING-WATER-002	Total/NA	Surface Water	410.4	

Analysis Batch: 197683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	365.1	197074
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	365.1	197074
MB 410-197074/2-A	Method Blank	Total/NA	Water	365.1	197074
LCS 410-197074/1-A	Lab Control Sample	Total/NA	Water	365.1	197074
410-63032-1 MS	ORS-INFLUENT	Total/NA	Groundwater	365.1	197074

General Chemistry (Continued)

Analysis Batch: 197683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-2 DU	RECEIVING-WATER-002	Total/NA	Surface Water	365.1	197074

Analysis Batch: 198143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	420.4	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	420.4	
MB 410-198143/19	Method Blank	Total/NA	Water	420.4	
MB 410-198143/52	Method Blank	Total/NA	Water	420.4	
LCS 410-198143/17	Lab Control Sample	Total/NA	Water	420.4	
LCS 410-198143/50	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-198143/18	Lab Control Sample Dup	Total/NA	Water	420.4	
LCSD 410-198143/51	Lab Control Sample Dup	Total/NA	Water	420.4	

Prep Batch: 199211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	351.2	
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	351.2	
MB 410-199211/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-199211/1-A	Lab Control Sample	Total/NA	Water	351.2	
410-63032-1 MS	ORS-INFLUENT	Total/NA	Groundwater	351.2	
410-63032-2 MS	RECEIVING-WATER-002	Total/NA	Surface Water	351.2	
410-63032-1 DU	ORS-INFLUENT	Total/NA	Groundwater	351.2	
410-63032-2 DU	RECEIVING-WATER-002	Total/NA	Surface Water	351.2	

Analysis Batch: 199704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-63032-1	ORS-INFLUENT	Total/NA	Groundwater	351.2	199211
410-63032-2	RECEIVING-WATER-002	Total/NA	Surface Water	351.2	199211
MB 410-199211/2-A	Method Blank	Total/NA	Water	351.2	199211
LCS 410-199211/1-A	Lab Control Sample	Total/NA	Water	351.2	199211
410-63032-1 MS	ORS-INFLUENT	Total/NA	Groundwater	351.2	199211
410-63032-2 MS	RECEIVING-WATER-002	Total/NA	Surface Water	351.2	199211
410-63032-1 DU	ORS-INFLUENT	Total/NA	Groundwater	351.2	199211
410-63032-2 DU	RECEIVING-WATER-002	Total/NA	Surface Water	351.2	199211

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63032-1

Client Sample ID: ORS-INFLUENT

Date Collected: 11/11/21 09:15
Date Received: 11/11/21 21:34

Lab Sample ID: 410-63032-1

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	194089	11/12/21 21:21	UJML	ELLE
Total/NA	Analysis	8260C		1	194676	11/15/21 12:28	TQ4J	ELLE
Total/NA	Prep	625.1			196248	11/18/21 08:28	YDF5	ELLE
Total/NA	Analysis	625.1		1	198279	11/24/21 05:10	DZ6A	ELLE
Total/NA	Analysis	8015C		1	194175	11/15/21 16:09	UMDJ	ELLE
Total/NA	Prep	RSK-175			194774	11/15/21 07:00	SE2A	ELLE
Total/NA	Analysis	RSK-175		1	194778	11/15/21 12:08	SE2A	ELLE
Total/NA	Prep	RSK-175	DL		195145	11/16/21 07:42	LXF2	ELLE
Total/NA	Analysis	RSK-175	DL	10	195161	11/16/21 10:33	LXF2	ELLE
Total/NA	Prep	608.3			195129	11/16/21 09:37	BLX5	ELLE
Total/NA	Analysis	608.3		1	195921	11/17/21 10:16	JC94	ELLE
Total/NA	Prep	608.3			195128	11/16/21 09:35	BLX5	ELLE
Total/NA	Analysis	608.3		1	195651	11/17/21 08:36	WN7O	ELLE
Total/NA	Prep	3510C			196131	11/17/21 21:00	UKL2	ELLE
Total/NA	Analysis	8015C		1	196357	11/18/21 14:24	IUSB	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	198728	11/24/21 18:04	MB4Z	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		500	198728	11/24/21 18:15	MB4Z	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			196004	11/17/21 16:00	WBK6	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		10	198759	11/24/21 18:10	S4PD	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			196004	11/17/21 16:00	WBK6	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	199079	11/29/21 09:37	S4PD	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			196004	11/17/21 16:00	WBK6	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	197231	11/20/21 03:02	S4PD	ELLE
Total/NA	Prep	245.1			195960	11/17/21 14:55	UJLA	ELLE
Total/NA	Analysis	245.1		1	196134	11/17/21 20:28	UEFS	ELLE
Total/NA	Analysis	1664A		1	195570	11/16/21 19:37	QT6L	ELLE
Total/NA	Analysis	180.1		2	194358	11/12/21 17:50	DI9Q	ELLE
Total/NA	Analysis	2320B-2011		1	195904	11/16/21 22:28	DI9Q	ELLE
Total/NA	Analysis	2340C-2011		5	195374	11/16/21 00:12	DI9Q	ELLE
Total/NA	Analysis	2510B-2011		1	195905	11/16/21 22:28	DI9Q	ELLE
Total/NA	Analysis	2540C-2011		1	195137	11/16/21 07:19	UOCA	ELLE
Total/NA	Analysis	2540D-2011		1	194412	11/15/21 01:35	M98K	ELLE
Total/NA	Analysis	2540F-2011		1	194394	11/12/21 19:25	DI9Q	ELLE
Total/NA	Prep	351.2			199211	11/29/21 13:00	UJE2	ELLE
Total/NA	Analysis	351.2		1	199704	11/30/21 09:46	JCG7	ELLE
Total/NA	Analysis	353.2		1	194275	11/17/21 23:32	USJM	ELLE
Total/NA	Prep	365.1			197074	11/19/21 20:09	F8AU	ELLE
Total/NA	Analysis	365.1		1	197683	11/22/21 12:37	JCG7	ELLE
Total/NA	Analysis	410.4		1	196462	11/17/21 22:34	DI9Q	ELLE
Total/NA	Analysis	420.4		1	198143	11/23/21 11:24	P684	ELLE
Total/NA	Analysis	4500 H+ B-2011		1	195906	11/16/21 22:28	DI9Q	ELLE
Total/NA	Analysis	5210 B-2011		1	195846	11/12/21 14:48	F8TI	ELLE

Client Sample ID: ORS-INFLUENT

Lab Sample ID: 410-63032-1

Date Collected: 11/11/21 09:15

Matrix: Groundwater

Date Received: 11/11/21 21:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2330B		1	194281	11/29/21 14:31	USJM	ELLE

Client Sample ID: RECEIVING-WATER-002

Lab Sample ID: 410-63032-2

Date Collected: 11/11/21 10:00

Matrix: Surface Water

Date Received: 11/11/21 21:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	194089	11/12/21 20:59	UJML	ELLE
Total/NA	Analysis	8260C		1	194676	11/15/21 12:48	TQ4J	ELLE
Total/NA	Prep	625.1			196248	11/18/21 08:28	YDF5	ELLE
Total/NA	Analysis	625.1		1	198279	11/24/21 05:31	DZ6A	ELLE
Total/NA	Analysis	8015C		1	194175	11/15/21 14:53	UMDJ	ELLE
Total/NA	Prep	RSK-175			194774	11/15/21 07:00	SE2A	ELLE
Total/NA	Analysis	RSK-175		1	194778	11/15/21 12:23	SE2A	ELLE
Total/NA	Prep	608.3			195129	11/16/21 09:37	BLX5	ELLE
Total/NA	Analysis	608.3		1	195921	11/17/21 10:27	JC94	ELLE
Total/NA	Prep	608.3			195128	11/16/21 09:35	BLX5	ELLE
Total/NA	Analysis	608.3		1	195651	11/17/21 08:48	WN7O	ELLE
Total/NA	Prep	3510C			196131	11/17/21 21:00	UKL2	ELLE
Total/NA	Analysis	8015C		1	196357	11/18/21 20:35	IUSB	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		1000	198728	11/24/21 18:36	MB4Z	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5000	199140	11/29/21 16:33	W5UX	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			196004	11/17/21 16:00	WBK6	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	199079	11/29/21 09:39	S4PD	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			196004	11/17/21 16:00	WBK6	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	197231	11/20/21 04:05	S4PD	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			196004	11/17/21 16:00	WBK6	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		10	197231	11/20/21 04:07	S4PD	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			196004	11/17/21 16:00	WBK6	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		100	197231	11/20/21 04:09	S4PD	ELLE
Total/NA	Prep	245.1			195960	11/17/21 14:55	UJLA	ELLE
Total/NA	Analysis	245.1		1	196134	11/17/21 20:30	UEFS	ELLE
Total/NA	Analysis	1664A		1	195570	11/16/21 19:37	QT6L	ELLE
Total/NA	Analysis	180.1		1	194358	11/12/21 17:50	DI9Q	ELLE
Total/NA	Analysis	2320B-2011		1	195904	11/16/21 22:34	DI9Q	ELLE
Total/NA	Analysis	2340C-2011		20	196914	11/18/21 23:43	DI9Q	ELLE
Total/NA	Analysis	2510B-2011		1	195905	11/16/21 22:34	DI9Q	ELLE
Total/NA	Analysis	2540C-2011		1	195137	11/16/21 07:19	UOCA	ELLE
Total/NA	Analysis	2540D-2011		1	194412	11/15/21 01:35	M98K	ELLE
Total/NA	Analysis	2540F-2011		1	194394	11/12/21 19:25	DI9Q	ELLE
Total/NA	Prep	351.2			199211	11/29/21 13:00	UJE2	ELLE
Total/NA	Analysis	351.2		1	199704	11/30/21 10:23	JCG7	ELLE
Total/NA	Analysis	353.2		1	194275	11/17/21 23:32	USJM	ELLE

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-63032-1

Client Sample ID: RECEIVING-WATER-002

Lab Sample ID: 410-63032-2

Date Collected: 11/11/21 10:00

Matrix: Surface Water

Date Received: 11/11/21 21:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	365.1			197074	11/19/21 20:09	F8AU	ELLE
Total/NA	Analysis	365.1		1	197683	11/22/21 12:37	JCG7	ELLE
Total/NA	Analysis	410.4		10	197657	11/19/21 21:20	DI9Q	ELLE
Total/NA	Analysis	420.4		50	198143	11/23/21 12:49	P684	ELLE
Total/NA	Analysis	4500 H+ B-2011		1	195906	11/16/21 22:34	DI9Q	ELLE
Total/NA	Analysis	5210 B-2011		1	195846	11/12/21 14:48	F8TI	ELLE

Client Sample ID: QAQC_TB

Lab Sample ID: 410-63032-3

Date Collected: 10/12/21 00:00

Matrix: Water

Date Received: 11/11/21 21:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	194089	11/12/21 20:37	UJML	ELLE
Total/NA	Analysis	8260C		1	195556	11/16/21 21:55	K4WN	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63032-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-22

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
365.1	365.1	Groundwater	Total Phosphorus as PO4
365.1	365.1	Surface Water	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
4500 H+ B-2011		Surface Water	pH
4500 H+ B-2011		Surface Water	Temperature
608.3	608.3	Groundwater	alpha-Chlordane (1C)
608.3	608.3	Groundwater	Chlordane (n.o.s.) (1C)
608.3	608.3	Surface Water	alpha-Chlordane (1C)
608.3	608.3	Surface Water	Chlordane (n.o.s.) (1C)
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl acetate
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	Methyl iodide
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane
624.1		Groundwater	n-Propyl acetate
624.1		Groundwater	N-Propylbenzene
624.1		Groundwater	p-Isopropyltoluene
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Surface Water	1,1,1,2-Tetrachloroethane
624.1		Surface Water	1,1-Dichloropropene
624.1		Surface Water	1,2,3-Trichlorobenzene
624.1		Surface Water	1,2,3-Trichloropropane
624.1		Surface Water	1,2,4-Trichlorobenzene
624.1		Surface Water	1,2,4-Trimethylbenzene
624.1		Surface Water	1,2-Dibromo-3-Chloropropane
624.1		Surface Water	1,2-Dibromoethane
624.1		Surface Water	1,2-Dichloroethene (total)
624.1		Surface Water	1,3,5-Trimethylbenzene
624.1		Surface Water	1,3-Dichloropropane
624.1		Surface Water	1,4-Dioxane
624.1		Surface Water	2,2-Dichloropropane
624.1		Surface Water	2-Chloro-1,3-butadiene
624.1		Surface Water	2-Chlorotoluene
624.1		Surface Water	2-Hexanone
624.1		Surface Water	2-Propanol
624.1		Surface Water	4-Chlorotoluene
624.1		Surface Water	Benzyl chloride
624.1		Surface Water	Bromobenzene
624.1		Surface Water	Butyl acetate
624.1		Surface Water	Carbon disulfide
624.1		Surface Water	Cyclohexane
624.1		Surface Water	Dibromomethane
624.1		Surface Water	Dichlorofluoromethane
624.1		Surface Water	di-Isopropyl ether
624.1		Surface Water	Ethyl acetate
624.1		Surface Water	Ethyl methacrylate
624.1		Surface Water	Ethyl t-butyl ether
624.1		Surface Water	Freon 123a
624.1		Surface Water	Hexachlorobutadiene
624.1		Surface Water	Isobutyl alcohol
624.1		Surface Water	Isopropyl acetate
624.1		Surface Water	Isopropylbenzene

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Surface Water	Methacrylonitrile
624.1		Surface Water	Methyl iodide
624.1		Surface Water	Methyl methacrylate
624.1		Surface Water	n-Butylbenzene
624.1		Surface Water	n-Heptane
624.1		Surface Water	n-Hexane
624.1		Surface Water	n-Propyl acetate
624.1		Surface Water	N-Propylbenzene
624.1		Surface Water	p-Isopropyltoluene
624.1		Surface Water	Propionitrile
624.1		Surface Water	sec-Butylbenzene
624.1		Surface Water	t-Amyl methyl ether
624.1		Surface Water	tert-Butylbenzene
624.1		Surface Water	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl acetate
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Methylnaphthalene
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Methylphenol
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
625.1	625.1	Surface Water	1,1'-Biphenyl
625.1	625.1	Surface Water	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Surface Water	1,2-Dichlorobenzene

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63032-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
625.1	625.1	Surface Water	1,3-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dioxane
625.1	625.1	Surface Water	1-Methylnaphthalene
625.1	625.1	Surface Water	1-Methylphenanthrene
625.1	625.1	Surface Water	2,3,4,6-Tetrachlorophenol
625.1	625.1	Surface Water	2,6-Dichlorophenol
625.1	625.1	Surface Water	2-Methylnaphthalene
625.1	625.1	Surface Water	2-Nitroaniline
625.1	625.1	Surface Water	3-Nitroaniline
625.1	625.1	Surface Water	4-Chloroaniline
625.1	625.1	Surface Water	4-Methylphenol
625.1	625.1	Surface Water	4-Nitroaniline
625.1	625.1	Surface Water	Benzoic acid
625.1	625.1	Surface Water	Benzyl alcohol
625.1	625.1	Surface Water	Dibenzofuran
625.1	625.1	Surface Water	Diphenyl ether
625.1	625.1	Surface Water	n-Docosane
625.1	625.1	Surface Water	n-Eicosane
625.1	625.1	Surface Water	n-Hexadecane
625.1	625.1	Surface Water	N-Nitrosodiethylamine
625.1	625.1	Surface Water	N-Nitrosodi-n-butylamine
625.1	625.1	Surface Water	N-Nitrosopyrrolidine
625.1	625.1	Surface Water	n-Tetradecane
625.1	625.1	Surface Water	o-Toluidine
625.1	625.1	Surface Water	Pentachlorobenzene
8015C	3510C	Groundwater	>C28-C35 (1C)
8015C	3510C	Surface Water	>C28-C35 (1C)
SM 2330B		Groundwater	Langelier Index

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63032-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
608.3	Organochlorine Pesticides in Water	40CFR136A	ELLE
608.3	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	MCAWW	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C-2011	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2011	Solids, Total Suspended (TSS)	SM	ELLE
2540F-2011	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	MCAWW	ELLE
420.4	Phenolics, Total Recoverable	MCAWW	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2011	BOD, 5-Day	SM	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
608.3	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater ", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-63032-1
Project/Site: EMGPRP-31097

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-63032-1	ORS-INFLUENT	Groundwater	11/11/21 09:15	11/11/21 21:34
410-63032-2	RECEIVING-WATER-002	Surface Water	11/11/21 10:00	11/11/21 21:34
410-63032-3	QAQC_TB	Water	10/12/21 00:00	11/11/21 21:34

l [barcode] equest/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13438

410-63032 Chain of Custody

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.		
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097
Consultant PM:	Courtney Lind	P.O. #: 0172 0030Y070	WAL# 4728
Sampler:	DK	XOM PM:	Elaine Lamm
Bill to :	☐ XOM ☑ Consultant		
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐

Matrix: Soil ☐ Sediment ☐ Tissue ☐ | Water: Potable ☐ Ground ☑ NPDES ☐ Surface ☑ | Other: Trip Blank

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix	Total # of Containers	VOCs (624.1) MEK, Acetone, MTBE	200.8, 245.1	625.1_PREC - (MOD) Priority Pollutants SVOCs	608.3_PCB_PREC, 608.3_Pest_PREC	300_ORGFM_28D - (MOD) Chloride/Sulfate	SM5210B_Calc - BOD, 5-Day Only	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved	351.2, 365.1, 410.4	2320B, 2510B, 2540C_SingleDry,	420.4 - Phenols	353.2_Nitrite - Nitrogen, Nitrite	2540D_Single_Dry - TSS	SM2540F - Settleable Solids	Turbidity (180.1)	SM2330B - Local Method	2340C - Local Method	Oil&Grease (1664A)	RSK_175 Methane Ethane Ethene	8015C TPH-DRO/ORO Standard TPH-DRO/ORO	TPH-GRO (8015) #10598	Remarks
							H	N					S	S		S					N	H	H	H	H		
ORS-INFLUENT	11/11/2021	9:15	X		Water	33	6	1	2	1	1	1	1	2	2	1	1	1	1	1	1	2	2	2	3		
RECEIVING-WATER-002	11/11/2021	10:00	X		Water	33	6	1	2	1	1	1	1	2	2	1	1	1	1	1	1	2	2	2	3		
QAQC_TB	10/12/2021				Trip Blank	2	2																				

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, F = Field Filtered, O = Other

For Lab Use Only: SF #: _____ SCR #: _____

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): 5 day 4day 72hour 48hour 24hour

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ OTHER

Type III (Reduced non-CLP/NJ Reduced) ☐ Standard with QC summary

TX TRRP-13 ☐

NJ DKQP ☐

NYSDEC Category ☐ A ☐ B

EDD Format(s) Needed: EQuIS and Excel

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	11/11/2021	15:50	RPM	11/11/21	1550
2	RPM	11/11/21	2045			
3						
4						
5				[signature]	11/11/21	2134

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt 4.2-5.7 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-63032-1

Login Number: 63032

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Cyms, Carolyn M

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-59010-1
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Attn: Matthew Mueller

Authorized for release by:
10/22/2021 1:33:35 PM

Megan Moeller, Client Services Group Leader
(717)556-7261
Megan.Moeller@eurofinset.com

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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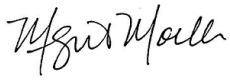

Megan Moeller
Client Services Group Leader
10/22/2021 1:33:35 PM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC 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.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-59010-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-59010-1

Receipt
The samples were received on 10/13/2021 9:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 2.0°C

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

GC/MS Semi VOA
Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 410-183988 recovered above the upper control limit for Di-n-octyl phthalate, n-Docosane and n-Eicosane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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

PCBs
Method 608.3_PCB_PREC: The DCB Decachlorobiphenyl surrogate recovery for the CCVRT, CCV and PIBLK associated with preparation batch 410-184310 and analytical batch 410-184784 was outside the upper control limits.

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

Pesticides
Method 608.3_Pest_PREC: The DCB Decachlorobiphenyl surrogate recovery for laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with preparation batch 410-184309 and analytical batch 410-184816 were outside the lower control limits. The recoveries for the analytes of interest were within acceptable control limits.

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

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

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

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

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: Outfall-01A — Lab Sample ID: 410-59010-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene (total)	0.87	J	1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	0.87	J	1.0	0.20	ug/L	1		624.1	Total/NA
Tetrachloroethene	0.67	J	1.0	0.30	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	1.3		1.0	0.20	ug/L	1		8260C	Total/NA
Sulfate	190		20	6.0	mg/L	20		EPA 300.0 R2.1	Total/NA
Chloride	1100		80	40	mg/L	200		EPA 300.0 R2.1	Total/NA
Arsenic	1.0	J	2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	280		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	160000		1000	740	ug/L	10		200.8 Rev 5.4	Total Recoverable
Cobalt	1.2		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	440	B	50	23	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	87000		50	10	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2500	B	20	6.3	ug/L	10		200.8 Rev 5.4	Total Recoverable
Nickel	1.9		1.0	0.60	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	17000		200	110	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	590000		2000	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	2.0	J	5.2	1.4	mg/L	1		1664A	Total/NA
Turbidity	2.1		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	360		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	700		100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	3700		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	3500		240	96	mg/L	1		2540C-2011	Total/NA
Total Kjeldahl Nitrogen	0.79	J *-	1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	1.0		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.32		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	58	J	75	25	mg/L	1		410.4	Total/NA
pH	8.1	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	23.4	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Langelier Index	0.17				LangSU	1		SM 2330B	Total/NA

Client Sample ID: Outfall-001 — Lab Sample ID: 410-59010-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene (total)	0.65	J	1.0	0.20	ug/L	1		624.1	Total/NA
Benzene	0.33	J	1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	0.65	J	1.0	0.20	ug/L	1		624.1	Total/NA
Tetrachloroethene	0.45	J	1.0	0.30	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	1.3		1.0	0.20	ug/L	1		8260C	Total/NA
Acetone	2.3	J	20	0.70	ug/L	1		8260C	Total/NA
Methane (1C)	31		5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	190		20	6.0	mg/L	20		EPA 300.0 R2.1	Total/NA
Chloride	1000		80	40	mg/L	200		EPA 300.0 R2.1	Total/NA
Arsenic	1.0	J	2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: Outfall-001 (Continued)

Lab Sample ID: 410-59010-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	280		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	160000		1000	740	ug/L	10		200.8 Rev 5.4	Total Recoverable
Cobalt	1.2		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	430	B	50	23	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	88000		50	10	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2500	B	20	6.3	ug/L	10		200.8 Rev 5.4	Total Recoverable
Nickel	1.7		1.0	0.60	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	18000		200	110	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	580000		2000	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	2.0	J	5.5	1.5	mg/L	1		1664A	Total/NA
Turbidity	2.7		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	370		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	870		100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	3600		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	3300		240	96	mg/L	1		2540C-2011	Total/NA
Total Kjeldahl Nitrogen	0.84	J	1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	1.0		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.42		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	59	J	75	25	mg/L	1		410.4	Total/NA
pH	8.2	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	23.5	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Langelier Index	0.30				LangSU	1		SM 2330B	Total/NA

Client Sample ID: QAQC_TB

Lab Sample ID: 410-59010-3

No Detections.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: Outfall-01A
Date Collected: 10/13/21 09:31
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-1
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/15/21 15:26	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/15/21 15:26	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/15/21 15:26	1
1,2-Dichloroethene (total)	**0.87**	**J**	1.0	0.20	ug/L			10/15/21 15:26	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
1,4-Dioxane	ND		50	15	ug/L			10/15/21 15:26	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/15/21 15:26	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/15/21 15:26	1
2-Chloroethyl vinyl ether	ND	F1	1.0	0.50	ug/L			10/15/21 15:26	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 15:26	1
2-Hexanone	ND		2.0	0.50	ug/L			10/15/21 15:26	1
2-Propanol	ND	F1	20	8.0	ug/L			10/15/21 15:26	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 15:26	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/15/21 15:26	1
Acetonitrile	ND		50	14	ug/L			10/15/21 15:26	1
Benzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/15/21 15:26	1
Bromobenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Bromoform	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Bromomethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Butyl acetate	ND		5.0	0.60	ug/L			10/15/21 15:26	1
Carbon disulfide	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Chloroethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Chloroform	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Chloromethane	ND		1.0	0.30	ug/L			10/15/21 15:26	1
cis-1,2-Dichloroethene	**0.87**	**J**	1.0	0.20	ug/L			10/15/21 15:26	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Cyclohexane	ND		1.0	0.30	ug/L			10/15/21 15:26	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Dibromomethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1

Client Sample ID: Outfall-01A
Date Collected: 10/13/21 09:31
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-1
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	F1	1.0	0.10	ug/L			10/15/21 15:26	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/15/21 15:26	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Freon 113	ND		1.0	0.30	ug/L			10/15/21 15:26	1
Freon 123a	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Isobutyl alcohol	ND		50	11	ug/L			10/15/21 15:26	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/15/21 15:26	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/15/21 15:26	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/15/21 15:26	1
Methacrylonitrile	ND		10	2.0	ug/L			10/15/21 15:26	1
Methyl iodide	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/15/21 15:26	1
Naphthalene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
n-Heptane	ND		1.0	0.30	ug/L			10/15/21 15:26	1
n-Hexane	ND		1.0	0.20	ug/L			10/15/21 15:26	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/15/21 15:26	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
o-Xylene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Propionitrile	ND		20	4.0	ug/L			10/15/21 15:26	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Styrene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/15/21 15:26	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/15/21 15:26	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Tetrachloroethene	**0.67**	**J**	1.0	0.30	ug/L			10/15/21 15:26	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/15/21 15:26	1
Toluene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/15/21 15:26	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/15/21 15:26	1
Trichloroethene	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/15/21 15:26	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/15/21 15:26	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/15/21 15:26	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/15/21 15:26	1
Acrolein	ND		10	3.0	ug/L			10/15/21 15:26	1
Acrylonitrile	ND		1.0	0.30	ug/L			10/15/21 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*10/15/21 15:26*	*1*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*10/15/21 15:26*	*1*
Dibromofluoromethane (Surr)	*115*		*60 - 140*		*10/15/21 15:26*	*1*

Client Sample ID: Outfall-01A
Lab Sample ID: 410-59010-1
Date Collected: 10/13/21 09:31
Matrix: Groundwater
Date Received: 10/13/21 21:47

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*60 - 140*		*10/15/21 15:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**1.3**		1.0	0.20	ug/L			10/18/21 20:09	1
Acetone	ND		20	0.70	ug/L			10/18/21 20:09	1
2-Butanone	ND		10	0.50	ug/L			10/18/21 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*10/18/21 20:09*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*10/18/21 20:09*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/18/21 20:09*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/18/21 20:09*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
1,2,4,5-Tetrachlorobenzene	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
1,2-Dichlorobenzene	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
1,2-Diphenylhydrazine	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
1,3-Dichlorobenzene	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
1,4-Dichlorobenzene	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
1,4-Dioxane	ND		5.1	2.0	ug/L		10/14/21 17:30	10/18/21 18:09	1
1-Methylnaphthalene	ND		5.1	0.36	ug/L		10/14/21 17:30	10/18/21 18:09	1
1-Methylphenanthrene	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2,2'-oxybis[1-chloropropane]	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2,3,4,6-Tetrachlorophenol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2,3-Dichloroaniline	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2,4,5-Trichlorophenol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2,4,6-Trichlorophenol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2,4-Dichlorophenol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2,4-Dimethylphenol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		10/14/21 17:30	10/18/21 18:09	1
2,4-Dinitrotoluene	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2,6-Dichlorophenol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2,6-Dinitrotoluene	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2-Chloronaphthalene	ND		5.1	1.0	ug/L		10/14/21 17:30	10/18/21 18:09	1
2-Chlorophenol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2-Methylnaphthalene	ND		5.1	0.20	ug/L		10/14/21 17:30	10/18/21 18:09	1
2-Methylphenol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2-Nitroaniline	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
2-Nitrophenol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
3,3'-Dichlorobenzidine	ND		5.1	0.82	ug/L		10/14/21 17:30	10/18/21 18:09	1
3-Nitroaniline	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/14/21 17:30	10/18/21 18:09	1
4-Bromophenyl-phenylether	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
4-Chloro-3-methylphenol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
4-Chloroaniline	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
4-Chlorophenyl-phenylether	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: Outfall-01A
Date Collected: 10/13/21 09:31
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-1
Matrix: Groundwater

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
4-Nitroaniline	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
4-Nitrophenol	ND		5.1	0.92	ug/L		10/14/21 17:30	10/18/21 18:09	1
Acenaphthene	ND		5.1	0.26	ug/L		10/14/21 17:30	10/18/21 18:09	1
Acenaphthylene	ND		5.1	0.20	ug/L		10/14/21 17:30	10/18/21 18:09	1
Acetophenone	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Aniline	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Anthracene	ND		5.1	0.26	ug/L		10/14/21 17:30	10/18/21 18:09	1
a-Terpineol	ND		5.1	0.61	ug/L		10/14/21 17:30	10/18/21 18:09	1
Benzidine	ND	*+	61	6.1	ug/L		10/14/21 17:30	10/18/21 18:09	1
Benzo[a]anthracene	ND		5.1	0.26	ug/L		10/14/21 17:30	10/18/21 18:09	1
Benzo[a]pyrene	ND		5.1	0.26	ug/L		10/14/21 17:30	10/18/21 18:09	1
Benzo[b]fluoranthene	ND		5.1	0.26	ug/L		10/14/21 17:30	10/18/21 18:09	1
Benzo[g,h,i]perylene	ND		5.1	0.31	ug/L		10/14/21 17:30	10/18/21 18:09	1
Benzo[k]fluoranthene	ND		5.1	0.20	ug/L		10/14/21 17:30	10/18/21 18:09	1
Benzoic acid	ND		31	4.1	ug/L		10/14/21 17:30	10/18/21 18:09	1
Benzyl alcohol	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Bis(2-chloroethoxy)methane	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Bis(2-chloroethyl)ether	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Bis(2-ethylhexyl) phthalate	ND		5.1	1.0	ug/L		10/14/21 17:30	10/18/21 18:09	1
Butylbenzylphthalate	ND	*1	5.1	1.0	ug/L		10/14/21 17:30	10/18/21 18:09	1
Carbazole	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Chrysene	ND		5.1	0.20	ug/L		10/14/21 17:30	10/18/21 18:09	1
Dibenz(a,h)anthracene	ND		5.1	0.31	ug/L		10/14/21 17:30	10/18/21 18:09	1
Dibenzofuran	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Diethylphthalate	ND	*1	5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Dimethylphthalate	ND	*1	5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Di-n-butyl phthalate	ND	*1	5.1	1.0	ug/L		10/14/21 17:30	10/18/21 18:09	1
Di-n-octyl phthalate	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Diphenyl ether	ND		5.1	0.77	ug/L		10/14/21 17:30	10/18/21 18:09	1
Fluoranthene	ND		5.1	0.20	ug/L		10/14/21 17:30	10/18/21 18:09	1
Fluorene	ND		5.1	0.20	ug/L		10/14/21 17:30	10/18/21 18:09	1
Hexachlorobenzene	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Hexachlorobutadiene	ND		2.0	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Hexachlorocyclopentadiene	ND		15	3.1	ug/L		10/14/21 17:30	10/18/21 18:09	1
Hexachloroethane	ND		2.0	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Indeno[1,2,3-cd]pyrene	ND		5.1	0.31	ug/L		10/14/21 17:30	10/18/21 18:09	1
Isophorone	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Naphthalene	ND		2.0	0.31	ug/L		10/14/21 17:30	10/18/21 18:09	1
n-Decane	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
n-Docosane	ND	*+	5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
n-Eicosane	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
n-Hexadecane	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Nitrobenzene	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
N-Nitrosodiethylamine	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
N-Nitrosodimethylamine	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
N-Nitrosodi-n-butylamine	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
N-Nitrosodi-n-propylamine	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
N-Nitrosodiphenylamine	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1

Client Sample ID: Outfall-01A
Date Collected: 10/13/21 09:31
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-1
Matrix: Groundwater

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
n-Octadecane	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
n-Tetradecane	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
o-Toluidine	ND		5.1	1.0	ug/L		10/14/21 17:30	10/18/21 18:09	1
Pentachlorobenzene	ND		5.1	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Pentachlorophenol	ND		5.1	0.82	ug/L		10/14/21 17:30	10/18/21 18:09	1
Phenanthrene	ND		5.1	0.20	ug/L		10/14/21 17:30	10/18/21 18:09	1
Phenol	ND		1.0	0.51	ug/L		10/14/21 17:30	10/18/21 18:09	1
Pyrene	ND		5.1	0.26	ug/L		10/14/21 17:30	10/18/21 18:09	1
Pyridine	ND		5.1	0.82	ug/L		10/14/21 17:30	10/18/21 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*6*	*S1-*	*23 - 140*	*10/14/21 17:30*	*10/18/21 18:09*	*1*
2-Fluorobiphenyl (Surr)	*69*		*36 - 101*	*10/14/21 17:30*	*10/18/21 18:09*	*1*
2-Fluorophenol (Surr)	*1*	*S1-*	*10 - 77*	*10/14/21 17:30*	*10/18/21 18:09*	*1*
Nitrobenzene-d5 (Surr)	*75*		*49 - 106*	*10/14/21 17:30*	*10/18/21 18:09*	*1*
Phenol-d5 (Surr)	*9*	*S1-*	*10 - 59*	*10/14/21 17:30*	*10/18/21 18:09*	*1*
p-Terphenyl-d14 (Surr)	*103*		*26 - 119*	*10/14/21 17:30*	*10/18/21 18:09*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/14/21 09:10	10/14/21 13:38	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/14/21 09:10	10/14/21 13:38	1
Methane (1C)	ND		5.0	3.0	ug/L		10/14/21 09:10	10/14/21 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*75*		*28 - 130*	*10/14/21 09:10*	*10/14/21 13:38*	*1*

Method: 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	ND		0.016	0.0081	ug/L		10/19/21 10:11	10/20/21 10:42	1
alpha-BHC (1C)	ND		0.048	0.019	ug/L		10/19/21 10:11	10/20/21 10:42	1
beta-BHC (1C)	ND		0.16	0.074	ug/L		10/19/21 10:11	10/20/21 10:42	1
alpha-Chlordane (1C)	ND		0.016	0.0097	ug/L		10/19/21 10:11	10/20/21 10:42	1
delta-BHC (1C)	ND		0.048	0.018	ug/L		10/19/21 10:11	10/20/21 10:42	1
Dieldrin (1C)	ND		0.032	0.013	ug/L		10/19/21 10:11	10/20/21 10:42	1
Endosulfan I (1C)	ND		0.016	0.0048	ug/L		10/19/21 10:11	10/20/21 10:42	1
Endosulfan II (1C)	ND		0.032	0.016	ug/L		10/19/21 10:11	10/20/21 10:42	1
Endosulfan sulfate (1C)	ND		0.032	0.016	ug/L		10/19/21 10:11	10/20/21 10:42	1
Endrin (1C)	ND		0.16	0.015	ug/L		10/19/21 10:11	10/20/21 10:42	1
Endrin aldehyde (1C)	ND		0.032	0.015	ug/L		10/19/21 10:11	10/20/21 10:42	1
gamma-BHC (Lindane) (1C)	ND		0.016	0.0084	ug/L		10/19/21 10:11	10/20/21 10:42	1
Heptachlor (1C)	ND		0.016	0.013	ug/L		10/19/21 10:11	10/20/21 10:42	1
Heptachlor epoxide (1C)	ND		0.16	0.0081	ug/L		10/19/21 10:11	10/20/21 10:42	1
4,4'-DDD (1C)	ND		0.032	0.015	ug/L		10/19/21 10:11	10/20/21 10:42	1
4,4'-DDE (1C)	ND		0.065	0.032	ug/L		10/19/21 10:11	10/20/21 10:42	1
4,4'-DDT (1C)	ND		0.032	0.016	ug/L		10/19/21 10:11	10/20/21 10:42	1
Toxaphene (1C)	ND		1.6	0.57	ug/L		10/19/21 10:11	10/20/21 10:42	1
Chlordane (n.o.s.) (1C)	ND		0.81	0.37	ug/L		10/19/21 10:11	10/20/21 10:42	1

Client Sample ID: Outfall-01A
Date Collected: 10/13/21 09:31
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-1
Matrix: Groundwater

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	67		32 - 149	10/19/21 10:11	10/20/21 10:42	1
DCB Decachlorobiphenyl (Surr) (2C)	57		32 - 149	10/19/21 10:11	10/20/21 10:42	1
Tetrachloro-m-xylene (1C)	77		29 - 129	10/19/21 10:11	10/20/21 10:42	1
Tetrachloro-m-xylene (2C)	61		29 - 129	10/19/21 10:11	10/20/21 10:42	1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.81	0.15	ug/L		10/19/21 10:18	10/19/21 22:48	1
PCB-1221 (1C)	ND		0.81	0.34	ug/L		10/19/21 10:18	10/19/21 22:48	1
PCB-1232 (1C)	ND		0.81	0.21	ug/L		10/19/21 10:18	10/19/21 22:48	1
PCB-1242 (1C)	ND		0.81	0.32	ug/L		10/19/21 10:18	10/19/21 22:48	1
PCB-1248 (1C)	ND		0.81	0.34	ug/L		10/19/21 10:18	10/19/21 22:48	1
PCB-1254 (1C)	ND		0.81	0.26	ug/L		10/19/21 10:18	10/19/21 22:48	1
PCB-1260 (1C)	ND		0.81	0.13	ug/L		10/19/21 10:18	10/19/21 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	117		10 - 127	10/19/21 10:18	10/19/21 22:48	1
DCB Decachlorobiphenyl (Surr) (2C)	89		10 - 127	10/19/21 10:18	10/19/21 22:48	1
Tetrachloro-m-xylene (Surr) (1C)	99		18 - 115	10/19/21 10:18	10/19/21 22:48	1
Tetrachloro-m-xylene (Surr) (2C)	82		18 - 115	10/19/21 10:18	10/19/21 22:48	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**190**		20	6.0	mg/L			10/21/21 09:40	20
Chloride	**1100**		80	40	mg/L			10/21/21 09:50	200

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		10/15/21 06:00	10/15/21 15:51	1
Aluminum	ND		25	20	ug/L		10/15/21 06:00	10/15/21 15:51	1
Arsenic	**1.0**	**J**	2.0	0.68	ug/L		10/15/21 06:00	10/15/21 15:51	1
Barium	**280**		2.0	0.75	ug/L		10/15/21 06:00	10/15/21 15:51	1
Beryllium	ND		0.50	0.12	ug/L		10/15/21 06:00	10/15/21 15:51	1
Cadmium	ND		0.50	0.15	ug/L		10/15/21 06:00	10/15/21 15:51	1
Calcium	**160000**		1000	740	ug/L		10/15/21 06:00	10/15/21 16:01	10
Chromium	ND		2.0	0.33	ug/L		10/15/21 06:00	10/15/21 15:51	1
Cobalt	**1.2**		0.50	0.16	ug/L		10/15/21 06:00	10/15/21 15:51	1
Copper	ND		1.0	0.36	ug/L		10/15/21 06:00	10/15/21 15:51	1
Iron	**440**	**B**	50	23	ug/L		10/15/21 06:00	10/15/21 15:51	1
Lead	ND		0.50	0.071	ug/L		10/15/21 06:00	10/15/21 15:51	1
Magnesium	**87000**		50	10	ug/L		10/15/21 06:00	10/15/21 15:51	1
Manganese	**2500**	**B**	20	6.3	ug/L		10/15/21 06:00	10/15/21 16:01	10
Nickel	**1.9**		1.0	0.60	ug/L		10/15/21 06:00	10/15/21 15:51	1
Potassium	**17000**		200	110	ug/L		10/15/21 06:00	10/15/21 15:51	1
Selenium	ND		1.0	0.28	ug/L		10/15/21 06:00	10/15/21 15:51	1
Silver	ND		0.50	0.17	ug/L		10/15/21 06:00	10/15/21 15:51	1
Sodium	**590000**		2000	500	ug/L		10/15/21 06:00	10/15/21 16:01	10
Thallium	ND		0.50	0.13	ug/L		10/15/21 06:00	10/15/21 15:51	1
Vanadium	ND		4.0	0.79	ug/L		10/15/21 06:00	10/15/21 15:51	1
Zinc	ND		10	6.2	ug/L		10/15/21 06:00	10/15/21 15:51	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: Outfall-01A
Date Collected: 10/13/21 09:31
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-1
Matrix: Groundwater

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/15/21 05:11	10/15/21 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	2.0	J	5.2	1.4	mg/L			10/15/21 17:52	1
Turbidity	2.1		1.0	1.0	NTU			10/14/21 19:45	1
Total Alkalinity as CaCO3 to pH 4.5	360		8.0	2.6	mg/L			10/16/21 03:17	1
Total Hardness	700		100	30	mg/L			10/14/21 11:36	10
Specific Conductance	3700		5.0	1.7	umhos/cm			10/16/21 03:17	1
Total Dissolved Solids	3500		240	96	mg/L			10/18/21 08:56	1
Settleable Solids	ND		0.10	0.10	mL/L			10/14/21 19:05	1
Total Kjeldahl Nitrogen	0.79	J *-	1.0	0.50	mg/L		10/20/21 05:50	10/21/21 11:33	1
Nitrate as N	1.0		0.10	0.040	mg/L			10/19/21 07:03	1
Total Phosphorus as PO4	0.32		0.31	0.25	mg/L		10/15/21 13:51	10/18/21 10:11	1
Chemical Oxygen Demand	58	J	75	25	mg/L			10/15/21 08:33	1
Phenols, Total	ND		0.020	0.010	mg/L			10/20/21 08:09	1
pH	8.1	HF	0.01	0.01	S.U.			10/16/21 03:17	1
Temperature	23.4	HF	0.01	0.01	Degrees C			10/16/21 03:17	1
Biochemical Oxygen Demand	ND		1.5	1.5	mg/L			10/14/21 19:06	1
Langelier Index	0.17				LangSU			10/14/21 05:00	1

General Chemistry
Lab: Eurofins TestAmerica, Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2.5	2.5	mg/L			10/20/21 07:57	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: Outfall-001
Date Collected: 10/13/21 10:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-2
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/15/21 16:32	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/15/21 16:32	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/15/21 16:32	1
1,2-Dichloroethene (total)	**0.65**	**J**	1.0	0.20	ug/L			10/15/21 16:32	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
1,4-Dioxane	ND		50	15	ug/L			10/15/21 16:32	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/15/21 16:32	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/15/21 16:32	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			10/15/21 16:32	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 16:32	1
2-Hexanone	ND		2.0	0.50	ug/L			10/15/21 16:32	1
2-Propanol	ND		20	8.0	ug/L			10/15/21 16:32	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 16:32	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/15/21 16:32	1
Acetonitrile	ND		50	14	ug/L			10/15/21 16:32	1
Benzene	**0.33**	**J**	1.0	0.20	ug/L			10/15/21 16:32	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/15/21 16:32	1
Bromobenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Bromoform	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Bromomethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Butyl acetate	ND		5.0	0.60	ug/L			10/15/21 16:32	1
Carbon disulfide	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Chloroethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Chloroform	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Chloromethane	ND		1.0	0.30	ug/L			10/15/21 16:32	1
cis-1,2-Dichloroethene	**0.65**	**J**	1.0	0.20	ug/L			10/15/21 16:32	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Cyclohexane	ND		1.0	0.30	ug/L			10/15/21 16:32	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Dibromomethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1

Client Sample ID: Outfall-001
Date Collected: 10/13/21 10:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-2
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			10/15/21 16:32	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/15/21 16:32	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Freon 113	ND		1.0	0.30	ug/L			10/15/21 16:32	1
Freon 123a	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Isobutyl alcohol	ND		50	11	ug/L			10/15/21 16:32	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/15/21 16:32	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/15/21 16:32	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/15/21 16:32	1
Methacrylonitrile	ND		10	2.0	ug/L			10/15/21 16:32	1
Methyl iodide	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/15/21 16:32	1
Naphthalene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
n-Heptane	ND		1.0	0.30	ug/L			10/15/21 16:32	1
n-Hexane	ND		1.0	0.20	ug/L			10/15/21 16:32	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/15/21 16:32	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
o-Xylene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Propionitrile	ND		20	4.0	ug/L			10/15/21 16:32	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Styrene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/15/21 16:32	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/15/21 16:32	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Tetrachloroethene	**0.45**	**J**	1.0	0.30	ug/L			10/15/21 16:32	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/15/21 16:32	1
Toluene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/15/21 16:32	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/15/21 16:32	1
Trichloroethene	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/15/21 16:32	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/15/21 16:32	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/15/21 16:32	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/15/21 16:32	1
Acrolein	ND		10	3.0	ug/L			10/15/21 16:32	1
Acrylonitrile	ND		1.0	0.30	ug/L			10/15/21 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*10/15/21 16:32*	*1*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*10/15/21 16:32*	*1*
Dibromofluoromethane (Surr)	*116*		*60 - 140*		*10/15/21 16:32*	*1*

Client Sample ID: Outfall-001
Date Collected: 10/13/21 10:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-2
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*60 - 140*		*10/15/21 16:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**1.3**		1.0	0.20	ug/L			10/18/21 20:28	1
Acetone	**2.3**	**J**	20	0.70	ug/L			10/18/21 20:28	1
2-Butanone	ND		10	0.50	ug/L			10/18/21 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/18/21 20:28*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*10/18/21 20:28*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/18/21 20:28*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/18/21 20:28*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
1,2,4,5-Tetrachlorobenzene	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
1,2,4-Trichlorobenzene	ND		1.2	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
1,2-Dichlorobenzene	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
1,2-Diphenylhydrazine	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
1,3-Dichlorobenzene	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
1,4-Dichlorobenzene	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
1,4-Dioxane	ND		5.8	2.3	ug/L		10/14/21 17:30	10/18/21 18:29	1
1-Methylnaphthalene	ND		5.8	0.41	ug/L		10/14/21 17:30	10/18/21 18:29	1
1-Methylphenanthrene	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2,2'-oxybis[1-chloropropane]	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2,3,4,6-Tetrachlorophenol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2,3-Dichloroaniline	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2,4,5-Trichlorophenol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2,4,6-Trichlorophenol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2,4-Dichlorophenol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2,4-Dimethylphenol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2,4-Dinitrophenol	ND		12	2.3	ug/L		10/14/21 17:30	10/18/21 18:29	1
2,4-Dinitrotoluene	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2,6-Dichlorophenol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2,6-Dinitrotoluene	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2-Chloronaphthalene	ND		5.8	1.2	ug/L		10/14/21 17:30	10/18/21 18:29	1
2-Chlorophenol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2-Methylnaphthalene	ND		5.8	0.23	ug/L		10/14/21 17:30	10/18/21 18:29	1
2-Methylphenol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2-Nitroaniline	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
2-Nitrophenol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
3,3'-Dichlorobenzidine	ND		5.8	0.93	ug/L		10/14/21 17:30	10/18/21 18:29	1
3-Nitroaniline	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
4,6-Dinitro-2-methylphenol	ND		12	2.3	ug/L		10/14/21 17:30	10/18/21 18:29	1
4-Bromophenyl-phenylether	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
4-Chloro-3-methylphenol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
4-Chloroaniline	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
4-Chlorophenyl-phenylether	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: Outfall-001
Date Collected: 10/13/21 10:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-2
Matrix: Groundwater

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
4-Nitroaniline	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
4-Nitrophenol	ND		5.8	1.0	ug/L		10/14/21 17:30	10/18/21 18:29	1
Acenaphthene	ND		5.8	0.29	ug/L		10/14/21 17:30	10/18/21 18:29	1
Acenaphthylene	ND		5.8	0.23	ug/L		10/14/21 17:30	10/18/21 18:29	1
Acetophenone	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Aniline	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Anthracene	ND		5.8	0.29	ug/L		10/14/21 17:30	10/18/21 18:29	1
a-Terpineol	ND		5.8	0.70	ug/L		10/14/21 17:30	10/18/21 18:29	1
Benzidine	ND	*+	70	7.0	ug/L		10/14/21 17:30	10/18/21 18:29	1
Benzo[a]anthracene	ND		5.8	0.29	ug/L		10/14/21 17:30	10/18/21 18:29	1
Benzo[a]pyrene	ND		5.8	0.29	ug/L		10/14/21 17:30	10/18/21 18:29	1
Benzo[b]fluoranthene	ND		5.8	0.29	ug/L		10/14/21 17:30	10/18/21 18:29	1
Benzo[g,h,i]perylene	ND		5.8	0.35	ug/L		10/14/21 17:30	10/18/21 18:29	1
Benzo[k]fluoranthene	ND		5.8	0.23	ug/L		10/14/21 17:30	10/18/21 18:29	1
Benzoic acid	ND		35	4.7	ug/L		10/14/21 17:30	10/18/21 18:29	1
Benzyl alcohol	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Bis(2-chloroethoxy)methane	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Bis(2-chloroethyl)ether	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Bis(2-ethylhexyl) phthalate	ND		5.8	1.2	ug/L		10/14/21 17:30	10/18/21 18:29	1
Butylbenzylphthalate	ND	*1	5.8	1.2	ug/L		10/14/21 17:30	10/18/21 18:29	1
Carbazole	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Chrysene	ND		5.8	0.23	ug/L		10/14/21 17:30	10/18/21 18:29	1
Dibenz(a,h)anthracene	ND		5.8	0.35	ug/L		10/14/21 17:30	10/18/21 18:29	1
Dibenzofuran	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Diethylphthalate	ND	*1	5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Dimethylphthalate	ND	*1	5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Di-n-butyl phthalate	ND	*1	5.8	1.2	ug/L		10/14/21 17:30	10/18/21 18:29	1
Di-n-octyl phthalate	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Diphenyl ether	ND		5.8	0.87	ug/L		10/14/21 17:30	10/18/21 18:29	1
Fluoranthene	ND		5.8	0.23	ug/L		10/14/21 17:30	10/18/21 18:29	1
Fluorene	ND		5.8	0.23	ug/L		10/14/21 17:30	10/18/21 18:29	1
Hexachlorobenzene	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Hexachlorobutadiene	ND		2.3	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Hexachlorocyclopentadiene	ND		17	3.5	ug/L		10/14/21 17:30	10/18/21 18:29	1
Hexachloroethane	ND		2.3	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Indeno[1,2,3-cd]pyrene	ND		5.8	0.35	ug/L		10/14/21 17:30	10/18/21 18:29	1
Isophorone	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Naphthalene	ND		2.3	0.35	ug/L		10/14/21 17:30	10/18/21 18:29	1
n-Decane	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
n-Docosane	ND	*+	5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
n-Eicosane	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
n-Hexadecane	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Nitrobenzene	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
N-Nitrosodiethylamine	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
N-Nitrosodimethylamine	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
N-Nitrosodi-n-butylamine	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
N-Nitrosodi-n-propylamine	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
N-Nitrosodiphenylamine	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1

Client Sample ID: Outfall-001
Date Collected: 10/13/21 10:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-2
Matrix: Groundwater

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
n-Octadecane	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
n-Tetradecane	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
o-Toluidine	ND		5.8	1.2	ug/L		10/14/21 17:30	10/18/21 18:29	1
Pentachlorobenzene	ND		5.8	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Pentachlorophenol	ND		5.8	0.93	ug/L		10/14/21 17:30	10/18/21 18:29	1
Phenanthrene	ND		5.8	0.23	ug/L		10/14/21 17:30	10/18/21 18:29	1
Phenol	ND		1.2	0.58	ug/L		10/14/21 17:30	10/18/21 18:29	1
Pyrene	ND		5.8	0.29	ug/L		10/14/21 17:30	10/18/21 18:29	1
Pyridine	ND		5.8	0.93	ug/L		10/14/21 17:30	10/18/21 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*7*	*S1-*	*23 - 140*	*10/14/21 17:30*	*10/18/21 18:29*	*1*
2-Fluorobiphenyl (Surr)	*75*		*36 - 101*	*10/14/21 17:30*	*10/18/21 18:29*	*1*
2-Fluorophenol (Surr)	*1*	*S1-*	*10 - 77*	*10/14/21 17:30*	*10/18/21 18:29*	*1*
Nitrobenzene-d5 (Surr)	*77*		*49 - 106*	*10/14/21 17:30*	*10/18/21 18:29*	*1*
Phenol-d5 (Surr)	*7*	*S1-*	*10 - 59*	*10/14/21 17:30*	*10/18/21 18:29*	*1*
p-Terphenyl-d14 (Surr)	*106*		*26 - 119*	*10/14/21 17:30*	*10/18/21 18:29*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/14/21 09:10	10/14/21 13:53	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/14/21 09:10	10/14/21 13:53	1
Methane (1C)	**31**		5.0	3.0	ug/L		10/14/21 09:10	10/14/21 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*54*		*28 - 130*	*10/14/21 09:10*	*10/14/21 13:53*	*1*

Method: 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	ND		0.013	0.0064	ug/L		10/19/21 10:11	10/20/21 10:54	1
alpha-BHC (1C)	ND		0.038	0.015	ug/L		10/19/21 10:11	10/20/21 10:54	1
beta-BHC (1C)	ND		0.13	0.059	ug/L		10/19/21 10:11	10/20/21 10:54	1
alpha-Chlordane (1C)	ND		0.013	0.0077	ug/L		10/19/21 10:11	10/20/21 10:54	1
delta-BHC (1C)	ND		0.038	0.014	ug/L		10/19/21 10:11	10/20/21 10:54	1
Dieldrin (1C)	ND		0.026	0.010	ug/L		10/19/21 10:11	10/20/21 10:54	1
Endosulfan I (1C)	ND		0.013	0.0038	ug/L		10/19/21 10:11	10/20/21 10:54	1
Endosulfan II (1C)	ND		0.026	0.013	ug/L		10/19/21 10:11	10/20/21 10:54	1
Endosulfan sulfate (1C)	ND		0.026	0.013	ug/L		10/19/21 10:11	10/20/21 10:54	1
Endrin (1C)	ND		0.13	0.011	ug/L		10/19/21 10:11	10/20/21 10:54	1
Endrin aldehyde (1C)	ND		0.026	0.012	ug/L		10/19/21 10:11	10/20/21 10:54	1
gamma-BHC (Lindane) (1C)	ND		0.013	0.0066	ug/L		10/19/21 10:11	10/20/21 10:54	1
Heptachlor (1C)	ND		0.013	0.010	ug/L		10/19/21 10:11	10/20/21 10:54	1
Heptachlor epoxide (1C)	ND		0.13	0.0064	ug/L		10/19/21 10:11	10/20/21 10:54	1
4,4'-DDD (1C)	ND		0.026	0.011	ug/L		10/19/21 10:11	10/20/21 10:54	1
4,4'-DDE (1C)	ND		0.051	0.026	ug/L		10/19/21 10:11	10/20/21 10:54	1
4,4'-DDT (1C)	ND		0.026	0.013	ug/L		10/19/21 10:11	10/20/21 10:54	1
Toxaphene (1C)	ND		1.3	0.45	ug/L		10/19/21 10:11	10/20/21 10:54	1
Chlordane (n.o.s.) (1C)	ND		0.64	0.30	ug/L		10/19/21 10:11	10/20/21 10:54	1

Client Sample ID: Outfall-001
Date Collected: 10/13/21 10:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-2
Matrix: Groundwater

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*57*		*32 - 149*	*10/19/21 10:11*	*10/20/21 10:54*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*52*		*32 - 149*	*10/19/21 10:11*	*10/20/21 10:54*	*1*
Tetrachloro-m-xylene (1C)	*73*		*29 - 129*	*10/19/21 10:11*	*10/20/21 10:54*	*1*
Tetrachloro-m-xylene (2C)	*59*		*29 - 129*	*10/19/21 10:11*	*10/20/21 10:54*	*1*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.64	0.12	ug/L		10/19/21 10:18	10/19/21 22:58	1
PCB-1221 (1C)	ND		0.64	0.27	ug/L		10/19/21 10:18	10/19/21 22:58	1
PCB-1232 (1C)	ND		0.64	0.17	ug/L		10/19/21 10:18	10/19/21 22:58	1
PCB-1242 (1C)	ND		0.64	0.26	ug/L		10/19/21 10:18	10/19/21 22:58	1
PCB-1248 (1C)	ND		0.64	0.27	ug/L		10/19/21 10:18	10/19/21 22:58	1
PCB-1254 (1C)	ND		0.64	0.20	ug/L		10/19/21 10:18	10/19/21 22:58	1
PCB-1260 (1C)	ND		0.64	0.10	ug/L		10/19/21 10:18	10/19/21 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*102*		*10 - 127*	*10/19/21 10:18*	*10/19/21 22:58*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*79*		*10 - 127*	*10/19/21 10:18*	*10/19/21 22:58*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*104*		*18 - 115*	*10/19/21 10:18*	*10/19/21 22:58*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*87*		*18 - 115*	*10/19/21 10:18*	*10/19/21 22:58*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**190**		20	6.0	mg/L			10/22/21 11:06	20
Chloride	**1000**		80	40	mg/L			10/22/21 11:17	200

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		10/15/21 06:00	10/15/21 13:51	1
Aluminum	ND		25	20	ug/L		10/15/21 06:00	10/15/21 13:51	1
Arsenic	**1.0**	**J**	2.0	0.68	ug/L		10/15/21 06:00	10/15/21 13:51	1
Barium	**280**		2.0	0.75	ug/L		10/15/21 06:00	10/15/21 13:51	1
Beryllium	ND		0.50	0.12	ug/L		10/15/21 06:00	10/15/21 15:55	1
Cadmium	ND		0.50	0.15	ug/L		10/15/21 06:00	10/15/21 13:51	1
Calcium	**160000**		1000	740	ug/L		10/15/21 06:00	10/15/21 16:03	10
Chromium	ND		2.0	0.33	ug/L		10/15/21 06:00	10/15/21 13:51	1
Cobalt	**1.2**		0.50	0.16	ug/L		10/15/21 06:00	10/15/21 13:51	1
Copper	ND		1.0	0.36	ug/L		10/15/21 06:00	10/15/21 13:51	1
Iron	**430**	**B**	50	23	ug/L		10/15/21 06:00	10/15/21 13:51	1
Lead	ND		0.50	0.071	ug/L		10/15/21 06:00	10/15/21 13:51	1
Magnesium	**88000**		50	10	ug/L		10/15/21 06:00	10/15/21 13:51	1
Manganese	**2500**	**B**	20	6.3	ug/L		10/15/21 06:00	10/15/21 16:03	10
Nickel	**1.7**		1.0	0.60	ug/L		10/15/21 06:00	10/15/21 15:55	1
Potassium	**18000**		200	110	ug/L		10/15/21 06:00	10/15/21 13:51	1
Selenium	ND		1.0	0.28	ug/L		10/15/21 06:00	10/15/21 13:51	1
Silver	ND		0.50	0.17	ug/L		10/15/21 06:00	10/15/21 13:51	1
Sodium	**580000**		2000	500	ug/L		10/15/21 06:00	10/15/21 16:03	10
Thallium	ND		0.50	0.13	ug/L		10/15/21 06:00	10/15/21 13:51	1
Vanadium	ND		4.0	0.79	ug/L		10/15/21 06:00	10/15/21 13:51	1
Zinc	ND		10	6.2	ug/L		10/15/21 06:00	10/15/21 13:51	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: Outfall-001
Date Collected: 10/13/21 10:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-2
Matrix: Groundwater

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/15/21 05:11	10/15/21 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	2.0	J	5.5	1.5	mg/L			10/15/21 17:52	1
Turbidity	2.7		1.0	1.0	NTU			10/14/21 19:45	1
Total Alkalinity as CaCO3 to pH 4.5	370		8.0	2.6	mg/L			10/16/21 03:38	1
Total Hardness	870		100	30	mg/L			10/14/21 11:44	10
Specific Conductance	3600		5.0	1.7	umhos/cm			10/16/21 03:38	1
Total Dissolved Solids	3300		240	96	mg/L			10/18/21 08:56	1
Settleable Solids	ND		0.10	0.10	mL/L			10/14/21 19:05	1
Total Kjeldahl Nitrogen	0.84	J	1.0	0.50	mg/L		10/20/21 14:16	10/21/21 12:43	1
Nitrate as N	1.0		0.10	0.040	mg/L			10/19/21 07:03	1
Total Phosphorus as PO4	0.42		0.31	0.25	mg/L		10/15/21 13:51	10/18/21 10:10	1
Chemical Oxygen Demand	59	J	75	25	mg/L			10/15/21 08:34	1
Phenols, Total	ND		0.020	0.010	mg/L			10/20/21 08:06	1
pH	8.2	HF	0.01	0.01	S.U.			10/16/21 03:38	1
Temperature	23.5	HF	0.01	0.01	Degrees C			10/16/21 03:38	1
Biochemical Oxygen Demand	ND		1.5	1.5	mg/L			10/14/21 19:06	1
Langelier Index	0.30				LangSU			10/14/21 05:01	1

General Chemistry
Lab: Eurofins TestAmerica, Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2.5	2.5	mg/L			10/20/21 07:57	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: QAQC_TB
Date Collected: 10/06/21 00:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-3
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/15/21 15:04	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Benzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Bromoform	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Bromomethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/15/21 15:04	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/15/21 15:04	1
Chloroethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Chloroform	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Chloromethane	ND		1.0	0.30	ug/L			10/15/21 15:04	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/15/21 15:04	1
1,4-Dioxane	ND		50	15	ug/L			10/15/21 15:04	1
Toluene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/15/21 15:04	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/15/21 15:04	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/15/21 15:04	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/15/21 15:04	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 15:04	1
Trichloroethene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
2-Hexanone	ND		2.0	0.50	ug/L			10/15/21 15:04	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/15/21 15:04	1
2-Propanol	ND		20	8.0	ug/L			10/15/21 15:04	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/15/21 15:04	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 15:04	1

Client Sample ID: QAQC_TB
Date Collected: 10/06/21 00:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-3
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/15/21 15:04	1
Acetonitrile	ND		50	14	ug/L			10/15/21 15:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/15/21 15:04	1
Bromobenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Butyl acetate	ND		5.0	0.60	ug/L			10/15/21 15:04	1
Carbon disulfide	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Cyclohexane	ND		1.0	0.30	ug/L			10/15/21 15:04	1
Dibromomethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			10/15/21 15:04	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/15/21 15:04	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Freon 113	ND		1.0	0.30	ug/L			10/15/21 15:04	1
Freon 123a	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Isobutyl alcohol	ND		50	11	ug/L			10/15/21 15:04	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/15/21 15:04	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/15/21 15:04	1
Methacrylonitrile	ND		10	2.0	ug/L			10/15/21 15:04	1
Methyl iodide	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Naphthalene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Propionitrile	ND		20	4.0	ug/L			10/15/21 15:04	1
Styrene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/15/21 15:04	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/15/21 15:04	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/15/21 15:04	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/15/21 15:04	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
n-Heptane	ND		1.0	0.30	ug/L			10/15/21 15:04	1
n-Hexane	ND		1.0	0.20	ug/L			10/15/21 15:04	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/15/21 15:04	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
o-Xylene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/15/21 15:04	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/15/21 15:04	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 15:04	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/15/21 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*		*10/15/21 15:04*	*1*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*10/15/21 15:04*	*1*
Dibromofluoromethane (Surr)	*115*		*60 - 140*		*10/15/21 15:04*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*10/15/21 15:04*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: QAQC_TB
Date Collected: 10/06/21 00:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/18/21 17:12	1
Acetone	ND		20	0.70	ug/L			10/18/21 17:12	1
2-Butanone	ND		10	0.50	ug/L			10/18/21 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*10/18/21 17:12*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*10/18/21 17:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/18/21 17:12*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/18/21 17:12*	*1*

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-59010-1	Outfall-01A	108	94	115	96
410-59010-1 MS	Outfall-01A	102	96	106	101
410-59010-1 MSD	Outfall-01A	102	97	105	101
410-59010-2	Outfall-001	106	94	116	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-59010-3	QAQC_TB	109	94	115	97
LCS 410-183303/1003	Lab Control Sample	101	97	107	102
LCS 410-183303/1004	Lab Control Sample	103	96	110	96
MB 410-183303/5	Method Blank	106	93	114	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-59010-1	Outfall-01A	105	106	99	99
410-59010-2	Outfall-001	106	107	98	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-59010-3	QAQC_TB	103	108	99	100
LCS 410-183855/4	Lab Control Sample	102	107	100	100
MB 410-183855/6	Method Blank	104	107	97	99

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(23-140)	(36-101)	(10-77)	(49-106)	(10-59)	(26-119)
410-59010-1	Outfall-01A	6 S1-	69	1 S1-	75	9 S1-	103
410-59010-2	Outfall-001	7 S1-	75	1 S1-	77	7 S1-	106

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(23-140)	(36-101)	(10-77)	(49-106)	(10-59)	(26-119)
LCS 410-182953/2-A	Lab Control Sample	84	69	49	65	32	102
LCS 410-182953/4-A	Lab Control Sample	77	65	54	67	36	97
LCSD 410-182953/3-A	Lab Control Sample Dup	91	75	50	72	34	112
LCSD 410-182953/5-A	Lab Control Sample Dup	86	63	55	67	37	101
MB 410-182953/1-A	Method Blank	88	69	47	69	30	103

Surrogate Legend

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

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		Propene1
Lab Sample ID	Client Sample ID	(28-130)
410-59010-1	Outfall-01A	75
410-59010-2	Outfall-001	54

Surrogate Legend

Propene = Propene

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59010-1
Project/Site: EMGPRP-31097

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(28-130)								
LCS 410-182685/2-A	Lab Control Sample	93								
LCSD 410-182685/3-A	Lab Control Sample Dup	91								
MB 410-182685/1-A	Method Blank	94								

Surrogate Legend

Propene = Propene

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DCB1	DCB2	TCX1	TCX2					
Lab Sample ID	Client Sample ID	(32-149)	(32-149)	(29-129)	(29-129)					
410-59010-1	Outfall-01A	67	57	77	61					
410-59010-2	Outfall-001	57	52	73	59					

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DCB1	DCB2	TCX1	TCX2					
Lab Sample ID	Client Sample ID	(32-149)	(32-149)	(29-129)	(29-129)					
LCS 410-184309/2-A	Lab Control Sample	30 S1-	30 S1-	65	54					
LCSD 410-184309/3-A	Lab Control Sample Dup	24 S1-	23 S1-	64	56					
MB 410-184309/1-A	Method Blank	32	32	50	44					

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DCB1	DCB2	TCX1	TCX2					
Lab Sample ID	Client Sample ID	(10-127)	(10-127)	(18-115)	(18-115)					
410-59010-1	Outfall-01A	117	89	99	82					
410-59010-2	Outfall-001	102	79	104	87					

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DCB1	TCX1							
Lab Sample ID	Client Sample ID	(10-127)	(18-115)							
LCS 410-184310/2-A	Lab Control Sample	47	71							

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59010-1
Project/Site: EMGPRP-31097

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(10-127)	(18-115)								
LCSD 410-184310/3-A	Lab Control Sample Dup	44	67								
MB 410-184310/1-A	Method Blank	58	71								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-183303/5
Matrix: Water
Analysis Batch: 183303

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/15/21 12:51	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/15/21 12:51	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			10/15/21 12:51	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			10/15/21 12:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Benzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,4-Dioxane	ND		50	15	ug/L			10/15/21 12:51	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Bromoform	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Bromomethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/15/21 12:51	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			10/15/21 12:51	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 12:51	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Chloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
2-Hexanone	ND		2.0	0.50	ug/L			10/15/21 12:51	1
Chloroform	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Chloromethane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
2-Propanol	ND		20	8.0	ug/L			10/15/21 12:51	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 12:51	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/15/21 12:51	1
Acetonitrile	ND		50	14	ug/L			10/15/21 12:51	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/15/21 12:51	1
Bromobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Butyl acetate	ND		5.0	0.60	ug/L			10/15/21 12:51	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Carbon disulfide	ND		1.0	0.20	ug/L			10/15/21 12:51	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-183303/5
Matrix: Water
Analysis Batch: 183303

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Dibromomethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			10/15/21 12:51	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/15/21 12:51	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Freon 113	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Freon 123a	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Isobutyl alcohol	ND		50	11	ug/L			10/15/21 12:51	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/15/21 12:51	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/15/21 12:51	1
Methacrylonitrile	ND		10	2.0	ug/L			10/15/21 12:51	1
Methyl iodide	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Naphthalene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Propionitrile	ND		20	4.0	ug/L			10/15/21 12:51	1
Styrene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/15/21 12:51	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/15/21 12:51	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
n-Heptane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/15/21 12:51	1
n-Hexane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/15/21 12:51	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/15/21 12:51	1
Toluene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
o-Xylene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/15/21 12:51	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Trichloroethene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/15/21 12:51	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/15/21 12:51	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/15/21 12:51	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Acrolein	ND		10	3.0	ug/L			10/15/21 12:51	1
Acrylonitrile	ND		1.0	0.30	ug/L			10/15/21 12:51	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-183303/5
Matrix: Water
Analysis Batch: 183303

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*10/15/21 12:51*	*1*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*10/15/21 12:51*	*1*
Dibromofluoromethane (Surr)	*114*		*60 - 140*		*10/15/21 12:51*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*10/15/21 12:51*	*1*

Lab Sample ID: LCS 410-183303/1003
Matrix: Water
Analysis Batch: 183303

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	21.8		ug/L		109	60 - 140
1,1,1-Trichloroethane	20.0	21.3		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		102	60 - 140
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	70 - 130
1,1-Dichloroethane	20.0	22.6		ug/L		113	70 - 130
1,1-Dichloroethene	20.0	21.8		ug/L		109	50 - 150
1,1-Dichloropropene	20.0	19.2		ug/L		96	60 - 140
1,2,3-Trichlorobenzene	20.0	17.3		ug/L		87	60 - 140
1,2,3-Trichloropropane	20.0	20.2		ug/L		101	60 - 140
1,2,4-Trichlorobenzene	20.0	16.1		ug/L		81	60 - 140
1,2-Dichloroethane	20.0	21.2		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	20.0	18.9		ug/L		94	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	21.9		ug/L		109	60 - 140
1,2-Dichloropropane	20.0	21.0		ug/L		105	35 - 165
1,2-Dibromoethane	20.0	20.0		ug/L		100	60 - 140
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	65 - 135
1,2-Dichloroethene (total)	40.0	42.3		ug/L		106	60 - 140
1,3,5-Trimethylbenzene	20.0	18.7		ug/L		93	60 - 140
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	70 - 130
1,3-Dichloropropane	20.0	19.9		ug/L		99	60 - 140
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	65 - 135
Benzene	20.0	20.8		ug/L		104	65 - 135
1,4-Dioxane	500	445		ug/L		89	60 - 140
Bromodichloromethane	20.0	24.2		ug/L		121	65 - 135
2,2-Dichloropropane	20.0	22.7		ug/L		113	60 - 140
Bromoform	20.0	24.4		ug/L		122	70 - 130
Bromomethane	20.0	19.2		ug/L		96	15 - 185
2-Chloro-1,3-butadiene	20.0	21.5		ug/L		107	60 - 140
Carbon tetrachloride	20.0	22.5		ug/L		112	70 - 130
2-Chlorotoluene	20.0	19.1		ug/L		96	60 - 140
Chlorobenzene	20.0	20.6		ug/L		103	65 - 135
Chloroethane	20.0	20.4		ug/L		102	40 - 160
2-Hexanone	250	267		ug/L		107	60 - 140
Chloroform	20.0	21.3		ug/L		107	70 - 135
Chloromethane	20.0	18.6		ug/L		93	10 - 200
2-Propanol	150	167		ug/L		111	60 - 140
cis-1,2-Dichloroethene	20.0	20.9		ug/L		105	60 - 140
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	25 - 175

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-183303/1003
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 183303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	20.0	19.7		ug/L		98	60 - 140
Dibromochloromethane	20.0	24.0		ug/L		120	70 - 135
4-Methyl-2-pentanone	250	264		ug/L		105	60 - 140
Benzyl chloride	20.0	22.3		ug/L		111	60 - 140
Bromobenzene	20.0	19.9		ug/L		99	60 - 140
Ethylbenzene	20.0	19.4		ug/L		97	60 - 140
Carbon disulfide	20.0	21.5		ug/L		107	60 - 140
Cyclohexane	20.0	16.6		ug/L		83	60 - 140
Dibromomethane	20.0	22.3		ug/L		112	60 - 140
Dichlorodifluoromethane	20.0	19.3		ug/L		97	60 - 140
Dichlorofluoromethane	20.0	21.7		ug/L		108	60 - 140
Ethyl methacrylate	20.0	16.7		ug/L		83	60 - 140
Ethyl t-butyl ether	20.0	20.0		ug/L		100	60 - 140
Freon 113	20.0	20.8		ug/L		104	60 - 140
Freon 123a	20.0	21.2		ug/L		106	60 - 140
Hexachlorobutadiene	20.0	17.9		ug/L		90	60 - 140
Methylene Chloride	20.0	21.9		ug/L		110	60 - 140
Isobutyl alcohol	500	457		ug/L		91	60 - 140
Isopropylbenzene	20.0	18.4		ug/L		92	60 - 140
Methacrylonitrile	150	156		ug/L		104	60 - 140
Methyl iodide	20.0	19.8		ug/L		99	60 - 140
Methyl methacrylate	20.0	18.4		ug/L		92	60 - 140
Naphthalene	20.0	15.9		ug/L		80	60 - 140
Propionitrile	150	173		ug/L		115	60 - 140
Styrene	20.0	19.6		ug/L		98	60 - 140
di-Isopropyl ether	20.0	20.4		ug/L		102	60 - 140
m&p-Xylene	40.0	40.2		ug/L		100	60 - 140
n-Butylbenzene	20.0	19.8		ug/L		99	60 - 140
n-Heptane	20.0	17.3		ug/L		87	60 - 140
Tetrachloroethene	20.0	18.8		ug/L		94	70 - 130
n-Hexane	20.0	19.2		ug/L		96	60 - 140
Tetrahydrofuran	100	100		ug/L		100	60 - 140
Toluene	20.0	19.7		ug/L		99	70 - 130
N-Propylbenzene	20.0	19.5		ug/L		98	60 - 140
o-Xylene	20.0	18.4		ug/L		92	60 - 140
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	70 - 130
p-Isopropyltoluene	20.0	18.7		ug/L		94	60 - 140
trans-1,3-Dichloropropene	20.0	21.3		ug/L		107	50 - 150
sec-Butylbenzene	20.0	18.6		ug/L		93	60 - 140
t-Amyl methyl ether	20.0	16.5		ug/L		83	60 - 140
Trichloroethene	20.0	20.1		ug/L		100	65 - 135
t-Butyl alcohol	200	247		ug/L		123	60 - 140
Trichlorofluoromethane	20.0	19.6		ug/L		98	50 - 150
tert-Butylbenzene	20.0	17.0		ug/L		85	60 - 140
trans-1,4-Dichloro-2-butene	100	111		ug/L		111	60 - 140
Vinyl chloride	20.0	18.5		ug/L		93	10 - 195
Xylenes, Total	60.0	58.6		ug/L		98	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-183303/1003
Matrix: Water
Analysis Batch: 183303

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
4-Bromofluorobenzene (Surr)	97		60 - 140
Dibromofluoromethane (Surr)	107		60 - 140
Toluene-d8 (Surr)	102		60 - 140

Lab Sample ID: LCS 410-183303/1004
Matrix: Water
Analysis Batch: 183303

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetonitrile	150	186		ug/L		124	60 - 140
Butyl acetate	20.0	16.5		ug/L		83	60 - 140
Ethyl acetate	20.0	21.8		ug/L		109	60 - 140
Isopropyl acetate	20.0	19.5		ug/L		97	60 - 140
n-Propyl acetate	20.0	16.4		ug/L		82	60 - 140
Vinyl acetate	100	122		ug/L		122	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
4-Bromofluorobenzene (Surr)	96		60 - 140
Dibromofluoromethane (Surr)	110		60 - 140
Toluene-d8 (Surr)	96		60 - 140

Lab Sample ID: 410-59010-1 MS
Matrix: Groundwater
Analysis Batch: 183303

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		20.0	23.4		ug/L		117	60 - 140
1,1,1-Trichloroethane	ND		20.0	24.1		ug/L		120	70 - 130
1,1,2,2-Tetrachloroethane	ND		20.0	21.7		ug/L		108	60 - 140
1,1,2-Trichloroethane	ND		20.0	22.2		ug/L		111	70 - 130
1,1-Dichloroethane	ND		20.0	25.2		ug/L		126	70 - 130
1,1-Dichloroethene	ND		20.0	24.6		ug/L		123	50 - 150
1,1-Dichloropropene	ND		20.0	21.8		ug/L		109	60 - 140
1,2,3-Trichlorobenzene	ND		20.0	17.9		ug/L		89	60 - 140
1,2,3-Trichloropropane	ND		20.0	21.6		ug/L		108	60 - 140
1,2,4-Trichlorobenzene	ND		20.0	17.0		ug/L		85	60 - 140
1,2-Dichloroethane	ND		20.0	22.9		ug/L		114	70 - 130
1,2,4-Trimethylbenzene	ND		20.0	20.5		ug/L		103	60 - 140
1,2-Dibromo-3-Chloropropane	ND		20.0	22.9		ug/L		115	60 - 140
1,2-Dichloropropane	ND		20.0	22.8		ug/L		114	35 - 165
1,2-Dibromoethane	ND		20.0	21.1		ug/L		105	60 - 140
1,2-Dichlorobenzene	ND		20.0	21.0		ug/L		105	65 - 135
1,2-Dichloroethene (total)	0.87	J	40.0	47.1		ug/L		116	60 - 140
1,3,5-Trimethylbenzene	ND		20.0	20.4		ug/L		102	60 - 140
1,3-Dichlorobenzene	ND		20.0	20.5		ug/L		102	70 - 130
1,3-Dichloropropane	ND		20.0	21.2		ug/L		106	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-59010-1 MS
Matrix: Groundwater
Analysis Batch: 183303

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	ND		20.0	21.0		ug/L		105	65 - 135
Benzene	ND		20.0	22.9		ug/L		114	65 - 135
1,4-Dioxane	ND		500	559		ug/L		112	60 - 140
Bromodichloromethane	ND		20.0	25.3		ug/L		126	65 - 135
2,2-Dichloropropane	ND		20.0	25.4		ug/L		127	60 - 140
Bromoform	ND		20.0	25.2		ug/L		126	70 - 130
Bromomethane	ND		20.0	22.4		ug/L		112	15 - 185
2-Chloro-1,3-butadiene	ND		20.0	24.7		ug/L		124	60 - 140
Carbon tetrachloride	ND		20.0	25.8		ug/L		129	70 - 130
2-Chlorotoluene	ND		20.0	20.9		ug/L		105	60 - 140
Chlorobenzene	ND		20.0	22.3		ug/L		111	65 - 135
Chloroethane	ND		20.0	25.1		ug/L		126	40 - 160
2-Hexanone	ND		250	300		ug/L		120	60 - 140
Chloroform	ND		20.0	23.3		ug/L		116	70 - 135
Chloromethane	ND		20.0	23.0		ug/L		115	10 - 200
2-Propanol	ND	F1	150	203		ug/L		135	60 - 140
cis-1,2-Dichloroethene	0.87	J	20.0	23.8		ug/L		115	60 - 140
cis-1,3-Dichloropropene	ND		20.0	19.5		ug/L		97	25 - 175
4-Chlorotoluene	ND		20.0	21.4		ug/L		107	60 - 140
Dibromochloromethane	ND		20.0	25.0		ug/L		125	70 - 135
4-Methyl-2-pentanone	ND		250	296		ug/L		118	60 - 140
Benzyl chloride	ND		20.0	22.8		ug/L		114	60 - 140
Bromobenzene	ND		20.0	21.1		ug/L		105	60 - 140
Ethylbenzene	ND		20.0	21.3		ug/L		106	60 - 140
Carbon disulfide	ND		20.0	24.0		ug/L		120	60 - 140
Cyclohexane	ND		20.0	19.2		ug/L		96	60 - 140
Dibromomethane	ND		20.0	23.7		ug/L		118	60 - 140
Dichlorodifluoromethane	ND	F1	20.0	28.5	F1	ug/L		143	60 - 140
Dichlorofluoromethane	ND		20.0	24.8		ug/L		124	60 - 140
Ethyl methacrylate	ND		20.0	17.6		ug/L		88	60 - 140
Ethyl t-butyl ether	ND		20.0	21.1		ug/L		106	60 - 140
Freon 113	ND		20.0	25.2		ug/L		126	60 - 140
Freon 123a	ND		20.0	24.8		ug/L		124	60 - 140
Hexachlorobutadiene	ND		20.0	19.5		ug/L		97	60 - 140
Methylene Chloride	ND		20.0	23.5		ug/L		117	60 - 140
Isobutyl alcohol	ND		500	596		ug/L		119	60 - 140
Isopropylbenzene	ND		20.0	20.8		ug/L		104	60 - 140
Methacrylonitrile	ND		150	166		ug/L		111	60 - 140
Methyl iodide	ND		20.0	21.5		ug/L		108	60 - 140
Methyl methacrylate	ND		20.0	19.8		ug/L		99	60 - 140
Naphthalene	ND		20.0	16.9		ug/L		84	60 - 140
Propionitrile	ND		150	197		ug/L		132	60 - 140
Styrene	ND		20.0	21.2		ug/L		106	60 - 140
di-Isopropyl ether	ND		20.0	22.1		ug/L		110	60 - 140
m&p-Xylene	ND		40.0	44.4		ug/L		111	60 - 140
n-Butylbenzene	ND		20.0	21.9		ug/L		110	60 - 140
n-Heptane	ND		20.0	20.6		ug/L		103	60 - 140
Tetrachloroethene	0.67	J	20.0	21.7		ug/L		105	70 - 130
n-Hexane	ND		20.0	22.4		ug/L		112	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-59010-1 MS
Matrix: Groundwater
Analysis Batch: 183303

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	ND		100	111		ug/L		111	60 - 140
Toluene	ND		20.0	22.0		ug/L		110	70 - 130
N-Propylbenzene	ND		20.0	21.5		ug/L		108	60 - 140
o-Xylene	ND		20.0	20.3		ug/L		101	60 - 140
trans-1,2-Dichloroethene	ND		20.0	23.3		ug/L		117	70 - 130
p-Isopropyltoluene	ND		20.0	20.7		ug/L		104	60 - 140
trans-1,3-Dichloropropene	ND		20.0	22.3		ug/L		111	50 - 150
sec-Butylbenzene	ND		20.0	20.9		ug/L		104	60 - 140
t-Amyl methyl ether	ND		20.0	17.1		ug/L		86	60 - 140
Trichloroethene	ND		20.0	22.1		ug/L		110	65 - 135
t-Butyl alcohol	ND		200	239		ug/L		120	60 - 140
Trichlorofluoromethane	ND		20.0	24.5		ug/L		122	50 - 150
tert-Butylbenzene	ND		20.0	19.6		ug/L		98	60 - 140
trans-1,4-Dichloro-2-butene	ND		100	106		ug/L		106	60 - 140
Vinyl chloride	ND		20.0	24.0		ug/L		120	10 - 195
Xylenes, Total	ND		60.0	64.7		ug/L		108	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*
Dibromofluoromethane (Surr)	*106*		*60 - 140*
Toluene-d8 (Surr)	*101*		*60 - 140*

Lab Sample ID: 410-59010-1 MSD
Matrix: Groundwater
Analysis Batch: 183303

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	23.1		ug/L		115	60 - 140	1	30
1,1,1-Trichloroethane	ND		20.0	23.7		ug/L		119	70 - 130	1	30
1,1,2,2-Tetrachloroethane	ND		20.0	21.9		ug/L		109	60 - 140	1	30
1,1,2-Trichloroethane	ND		20.0	21.6		ug/L		108	70 - 130	3	30
1,1-Dichloroethane	ND		20.0	24.5		ug/L		122	70 - 130	3	30
1,1-Dichloroethene	ND		20.0	24.4		ug/L		122	50 - 150	1	30
1,1-Dichloropropene	ND		20.0	21.7		ug/L		109	60 - 140	0	30
1,2,3-Trichlorobenzene	ND		20.0	18.3		ug/L		92	60 - 140	2	30
1,2,3-Trichloropropane	ND		20.0	21.2		ug/L		106	60 - 140	2	30
1,2,4-Trichlorobenzene	ND		20.0	17.8		ug/L		89	60 - 140	5	30
1,2-Dichloroethane	ND		20.0	22.9		ug/L		114	70 - 130	0	30
1,2,4-Trimethylbenzene	ND		20.0	20.5		ug/L		103	60 - 140	0	30
1,2-Dibromo-3-Chloropropane	ND		20.0	22.5		ug/L		113	60 - 140	2	30
1,2-Dichloropropane	ND		20.0	22.1		ug/L		110	35 - 165	3	30
1,2-Dibromoethane	ND		20.0	20.6		ug/L		103	60 - 140	2	30
1,2-Dichlorobenzene	ND		20.0	20.8		ug/L		104	65 - 135	1	30
1,2-Dichloroethene (total)	0.87	J	40.0	46.4		ug/L		114	60 - 140	1	30
1,3,5-Trimethylbenzene	ND		20.0	20.4		ug/L		102	60 - 140	0	30
1,3-Dichlorobenzene	ND		20.0	20.5		ug/L		102	70 - 130	0	30
1,3-Dichloropropane	ND		20.0	20.5		ug/L		103	60 - 140	3	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-59010-1 MSD
Matrix: Groundwater
Analysis Batch: 183303

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		20.0	20.9		ug/L		105	65 - 135	1	30
Benzene	ND		20.0	22.5		ug/L		113	65 - 135	2	30
1,4-Dioxane	ND		500	579		ug/L		116	60 - 140	3	30
Bromodichloromethane	ND		20.0	25.1		ug/L		125	65 - 135	1	30
2,2-Dichloropropane	ND		20.0	25.1		ug/L		125	60 - 140	1	30
Bromoform	ND		20.0	25.2		ug/L		126	70 - 130	0	30
Bromomethane	ND		20.0	22.1		ug/L		111	15 - 185	1	30
2-Chloro-1,3-butadiene	ND		20.0	24.5		ug/L		122	60 - 140	1	30
Carbon tetrachloride	ND		20.0	25.4		ug/L		127	70 - 130	2	30
2-Chlorotoluene	ND		20.0	20.6		ug/L		103	60 - 140	1	30
Chlorobenzene	ND		20.0	21.9		ug/L		109	65 - 135	2	30
Chloroethane	ND		20.0	25.3		ug/L		126	40 - 160	1	30
2-Hexanone	ND		250	298		ug/L		119	60 - 140	1	30
Chloroform	ND		20.0	22.9		ug/L		115	70 - 135	2	30
Chloromethane	ND		20.0	24.3		ug/L		122	10 - 200	6	30
2-Propanol	ND	F1	150	224	F1	ug/L		149	60 - 140	10	30
cis-1,2-Dichloroethene	0.87	J	20.0	23.0		ug/L		111	60 - 140	3	30
cis-1,3-Dichloropropene	ND		20.0	19.6		ug/L		98	25 - 175	1	30
4-Chlorotoluene	ND		20.0	21.2		ug/L		106	60 - 140	1	30
Dibromochloromethane	ND		20.0	24.3		ug/L		122	70 - 135	3	30
4-Methyl-2-pentanone	ND		250	287		ug/L		115	60 - 140	3	30
Benzyl chloride	ND		20.0	22.9		ug/L		115	60 - 140	1	30
Bromobenzene	ND		20.0	20.8		ug/L		104	60 - 140	1	30
Ethylbenzene	ND		20.0	20.8		ug/L		104	60 - 140	2	30
Carbon disulfide	ND		20.0	24.9		ug/L		124	60 - 140	3	30
Cyclohexane	ND		20.0	19.0		ug/L		95	60 - 140	1	30
Dibromomethane	ND		20.0	23.0		ug/L		115	60 - 140	3	30
Dichlorodifluoromethane	ND	F1	20.0	29.7	F1	ug/L		149	60 - 140	4	30
Dichlorofluoromethane	ND		20.0	24.9		ug/L		124	60 - 140	1	30
Ethyl methacrylate	ND		20.0	17.5		ug/L		88	60 - 140	0	30
Ethyl t-butyl ether	ND		20.0	20.7		ug/L		103	60 - 140	2	30
Freon 113	ND		20.0	24.1		ug/L		120	60 - 140	5	30
Freon 123a	ND		20.0	24.4		ug/L		122	60 - 140	2	30
Hexachlorobutadiene	ND		20.0	19.0		ug/L		95	60 - 140	2	30
Methylene Chloride	ND		20.0	23.2		ug/L		116	60 - 140	1	30
Isobutyl alcohol	ND		500	602		ug/L		120	60 - 140	1	30
Isopropylbenzene	ND		20.0	20.2		ug/L		101	60 - 140	3	30
Methacrylonitrile	ND		150	164		ug/L		109	60 - 140	1	30
Methyl iodide	ND		20.0	21.1		ug/L		106	60 - 140	2	30
Methyl methacrylate	ND		20.0	20.1		ug/L		100	60 - 140	1	30
Naphthalene	ND		20.0	17.2		ug/L		86	60 - 140	2	30
Propionitrile	ND		150	173		ug/L		115	60 - 140	13	30
Styrene	ND		20.0	20.7		ug/L		103	60 - 140	3	30
di-Isopropyl ether	ND		20.0	21.7		ug/L		109	60 - 140	2	30
m&p-Xylene	ND		40.0	43.1		ug/L		108	60 - 140	3	30
n-Butylbenzene	ND		20.0	21.9		ug/L		110	60 - 140	0	30
n-Heptane	ND		20.0	19.8		ug/L		99	60 - 140	4	30
Tetrachloroethene	0.67	J	20.0	21.4		ug/L		104	70 - 130	1	30
n-Hexane	ND		20.0	22.1		ug/L		110	60 - 140	2	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-59010-1 MSD
Matrix: Groundwater
Analysis Batch: 183303

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrahydrofuran	ND		100	110		ug/L		110	60 - 140	1	30
Toluene	ND		20.0	21.3		ug/L		107	70 - 130	3	30
N-Propylbenzene	ND		20.0	21.4		ug/L		107	60 - 140	1	30
o-Xylene	ND		20.0	19.8		ug/L		99	60 - 140	2	30
trans-1,2-Dichloroethene	ND		20.0	23.4		ug/L		117	70 - 130	0	30
p-Isopropyltoluene	ND		20.0	20.8		ug/L		104	60 - 140	0	30
trans-1,3-Dichloropropene	ND		20.0	21.5		ug/L		108	50 - 150	3	30
sec-Butylbenzene	ND		20.0	20.8		ug/L		104	60 - 140	0	30
t-Amyl methyl ether	ND		20.0	17.3		ug/L		86	60 - 140	1	30
Trichloroethene	ND		20.0	21.5		ug/L		108	65 - 135	2	30
t-Butyl alcohol	ND		200	253		ug/L		127	60 - 140	6	30
Trichlorofluoromethane	ND		20.0	24.7		ug/L		124	50 - 150	1	30
tert-Butylbenzene	ND		20.0	19.6		ug/L		98	60 - 140	0	30
trans-1,4-Dichloro-2-butene	ND		100	106		ug/L		106	60 - 140	0	30
Vinyl chloride	ND		20.0	24.7		ug/L		123	10 - 195	3	30
Xylenes, Total	ND		60.0	62.9		ug/L		105	60 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*
Dibromofluoromethane (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*101*		*60 - 140*

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

Lab Sample ID: MB 410-183855/6
Matrix: Water
Analysis Batch: 183855

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/18/21 11:55	1
Acetone	ND		20	0.70	ug/L			10/18/21 11:55	1
2-Butanone	ND		10	0.50	ug/L			10/18/21 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*10/18/21 11:55*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*10/18/21 11:55*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/18/21 11:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/18/21 11:55*	*1*

Lab Sample ID: LCS 410-183855/4
Matrix: Water
Analysis Batch: 183855

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methyl tertiary butyl ether			20.0	18.6		ug/L		93	69 - 122		
Acetone			250	256		ug/L		102	54 - 157		
2-Butanone			250	252		ug/L		101	59 - 135		

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

Lab Sample ID: LCS 410-183855/4
Matrix: Water
Analysis Batch: 183855

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-182953/1-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,4-Dioxane	ND		5.0	2.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		10/14/21 17:30	10/18/21 14:52	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Chlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Methylphenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Nitroaniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Nitrophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		10/14/21 17:30	10/18/21 14:52	1
3-Nitroaniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Chloroaniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Methylphenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Nitroaniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Nitrophenol	ND		5.0	0.90	ug/L		10/14/21 17:30	10/18/21 14:52	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-182953/1-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
Acenaphthylene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Acetophenone	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Aniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Anthracene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
a-Terpineol	ND		5.0	0.60	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzidine	ND		60	6.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzoic acid	ND		30	4.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzyl alcohol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Carbazole	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Chrysene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		10/14/21 17:30	10/18/21 14:52	1
Dibenzofuran	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Diethylphthalate	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Dimethylphthalate	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Diphenyl ether	ND		5.0	0.75	ug/L		10/14/21 17:30	10/18/21 14:52	1
Fluoranthene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Fluorene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Hexachloroethane	ND		2.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		10/14/21 17:30	10/18/21 14:52	1
Isophorone	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Naphthalene	ND		2.0	0.30	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Decane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Docosane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Eicosane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Hexadecane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Nitrobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Octadecane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Tetradecane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-182953/1-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Toluidine	ND		5.0	1.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Pentachlorophenol	ND		5.0	0.80	ug/L		10/14/21 17:30	10/18/21 14:52	1
Phenanthrene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Phenol	ND		1.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Pyrene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
Pyridine	ND		5.0	0.80	ug/L		10/14/21 17:30	10/18/21 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*88*		*23 - 140*	*10/14/21 17:30*	*10/18/21 14:52*	*1*
2-Fluorobiphenyl (Surr)	*69*		*36 - 101*	*10/14/21 17:30*	*10/18/21 14:52*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 77*	*10/14/21 17:30*	*10/18/21 14:52*	*1*
Nitrobenzene-d5 (Surr)	*69*		*49 - 106*	*10/14/21 17:30*	*10/18/21 14:52*	*1*
Phenol-d5 (Surr)	*30*		*10 - 59*	*10/14/21 17:30*	*10/18/21 14:52*	*1*
p-Terphenyl-d14 (Surr)	*103*		*26 - 119*	*10/14/21 17:30*	*10/18/21 14:52*	*1*

Lab Sample ID: LCS 410-182953/2-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	50.0	41.3		ug/L		83	52 - 106
1,2,4,5-Tetrachlorobenzene	50.0	32.4		ug/L		65	43 - 94
1,2,4-Trichlorobenzene	50.0	27.5		ug/L		55	44 - 142
1,2-Dichlorobenzene	50.0	30.4		ug/L		61	36 - 87
1,2-Diphenylhydrazine	50.0	41.4		ug/L		83	69 - 117
1,3-Dichlorobenzene	50.0	29.5		ug/L		59	30 - 85
1,4-Dichlorobenzene	50.0	28.6		ug/L		57	32 - 85
1,4-Dioxane	50.0	19.9		ug/L		40	30 - 60
1-Methylnaphthalene	50.0	36.1		ug/L		72	53 - 91
1-Methylphenanthrene	50.0	41.6		ug/L		83	56 - 128
2,2'-oxybis[1-chloropropane]	50.0	48.8		ug/L		98	48 - 110
2,3,4,6-Tetrachlorophenol	50.0	36.9		ug/L		74	72 - 115
2,3-Dichloroaniline	50.0	41.8		ug/L		84	65 - 118
2,4,5-Trichlorophenol	50.0	42.8		ug/L		86	70 - 110
2,4,6-Trichlorophenol	50.0	44.5		ug/L		89	37 - 144
2,4-Dichlorophenol	50.0	40.9		ug/L		82	39 - 135
2,4-Dimethylphenol	50.0	37.0		ug/L		74	32 - 120
2,4-Dinitrophenol	100	83.5		ug/L		83	10 - 191
2,4-Dinitrotoluene	50.0	44.1		ug/L		88	39 - 139
2,6-Dichlorophenol	50.0	40.8		ug/L		82	48 - 114
2,6-Dinitrotoluene	50.0	44.7		ug/L		89	50 - 158
2-Chloronaphthalene	50.0	35.8		ug/L		72	60 - 120
2-Chlorophenol	50.0	41.5		ug/L		83	23 - 134
2-Methylnaphthalene	50.0	34.7		ug/L		69	50 - 100
2-Methylphenol	50.0	37.2		ug/L		74	56 - 99
2-Nitroaniline	50.0	45.2		ug/L		90	71 - 119
2-Nitrophenol	50.0	46.1		ug/L		92	29 - 182

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-182953/2-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3,3'-Dichlorobenzidine	100	79.1		ug/L		79	10 - 200
3-Nitroaniline	50.0	44.1		ug/L		88	64 - 113
4,6-Dinitro-2-methylphenol	100	105		ug/L		105	10 - 181
4-Bromophenyl-phenylether	50.0	43.7		ug/L		87	53 - 127
4-Chloro-3-methylphenol	50.0	36.6		ug/L		73	22 - 147
4-Chloroaniline	50.0	39.3		ug/L		79	47 - 93
4-Chlorophenyl-phenylether	50.0	38.3		ug/L		77	25 - 158
4-Methylphenol	50.0	31.1		ug/L		62	47 - 96
4-Nitroaniline	50.0	42.7		ug/L		85	52 - 112
4-Nitrophenol	100	38.1		ug/L		38	10 - 132
Acenaphthene	50.0	40.9		ug/L		82	47 - 145
Acenaphthylene	50.0	42.7		ug/L		85	33 - 145
Acetophenone	50.0	36.5		ug/L		73	64 - 101
Aniline	50.0	32.3		ug/L		65	24 - 79
Anthracene	50.0	45.4		ug/L		91	27 - 133
a-Terpineol	50.0	42.6		ug/L		85	55 - 122
Benzidine	100	51.8	J *+	ug/L		52	10 - 48
Benzo[a]anthracene	50.0	47.4		ug/L		95	33 - 143
Benzo[a]pyrene	50.0	49.6		ug/L		99	17 - 163
Benzo[b]fluoranthene	50.0	41.4		ug/L		83	24 - 159
Benzo[g,h,i]perylene	50.0	53.5		ug/L		107	10 - 200
Benzo[k]fluoranthene	50.0	50.2		ug/L		100	11 - 162
Benzoic acid	50.0	27.3	J	ug/L		55	10 - 74
Benzyl alcohol	50.0	39.7		ug/L		79	52 - 109
Bis(2-chloroethoxy)methane	50.0	38.1		ug/L		76	33 - 184
Bis(2-chloroethyl)ether	50.0	37.2		ug/L		74	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	59.7		ug/L		119	10 - 158
Butylbenzylphthalate	50.0	16.1		ug/L		32	10 - 152
Carbazole	50.0	45.1		ug/L		90	72 - 114
Chrysene	50.0	47.0		ug/L		94	17 - 168
Dibenz(a,h)anthracene	50.0	50.9		ug/L		102	10 - 200
Dibenzofuran	50.0	40.6		ug/L		81	64 - 106
Diethylphthalate	50.0	23.2		ug/L		46	10 - 120
Dimethylphthalate	50.0	5.44		ug/L		11	10 - 120
Di-n-butyl phthalate	50.0	37.8		ug/L		76	10 - 120
Di-n-octyl phthalate	50.0	62.6		ug/L		125	10 - 146
Diphenyl ether	50.0	39.3		ug/L		79	59 - 105
Fluoranthene	50.0	42.0		ug/L		84	26 - 137
Fluorene	50.0	42.2		ug/L		84	59 - 121
Hexachlorobenzene	50.0	43.1		ug/L		86	10 - 152
Hexachlorobutadiene	50.0	25.3		ug/L		51	24 - 120
Hexachlorocyclopentadiene	50.0	11.8	J	ug/L		24	10 - 79
Hexachloroethane	50.0	26.1		ug/L		52	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	44.1		ug/L		88	10 - 171
Isophorone	50.0	38.3		ug/L		77	21 - 196
Naphthalene	50.0	35.7		ug/L		71	21 - 133
n-Decane	50.0	37.1		ug/L		74	31 - 93
n-Docosane	50.0	68.5		ug/L		137	55 - 152
n-Eicosane	50.0	62.1		ug/L		124	49 - 151

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-182953/2-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Hexadecane	50.0	51.0		ug/L		102	50 - 127
Nitrobenzene	50.0	34.8		ug/L		70	35 - 180
N-Nitrosodimethylamine	50.0	27.4		ug/L		55	38 - 74
N-Nitrosodi-n-propylamine	50.0	35.2		ug/L		70	10 - 200
N-Nitrosodiphenylamine	42.5	38.3		ug/L		90	72 - 113
n-Octadecane	50.0	55.7		ug/L		111	59 - 133
n-Tetradecane	50.0	50.6		ug/L		101	46 - 113
Pentachlorophenol	100	78.9		ug/L		79	14 - 176
Phenanthrene	50.0	45.2		ug/L		90	54 - 120
Phenol	50.0	18.5		ug/L		37	10 - 120
Pyrene	50.0	47.7		ug/L		95	52 - 120
Pyridine	100	41.7		ug/L		42	27 - 52

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*84*		*23 - 140*
2-Fluorobiphenyl (Surr)	*69*		*36 - 101*
2-Fluorophenol (Surr)	*49*		*10 - 77*
Nitrobenzene-d5 (Surr)	*65*		*49 - 106*
Phenol-d5 (Surr)	*32*		*10 - 59*
p-Terphenyl-d14 (Surr)	*102*		*26 - 119*

Lab Sample ID: LCS 410-182953/4-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	50.0	37.4		ug/L		75	75 - 110
N-Nitrosodi-n-butylamine	50.0	33.6		ug/L		67	57 - 101
N-Nitrosopyrrolidine	50.0	34.9		ug/L		70	65 - 112
o-Toluidine	50.0	34.9		ug/L		70	52 - 82
Pentachlorobenzene	50.0	30.3		ug/L		61	27 - 108

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*77*		*23 - 140*
2-Fluorobiphenyl (Surr)	*65*		*36 - 101*
2-Fluorophenol (Surr)	*54*		*10 - 77*
Nitrobenzene-d5 (Surr)	*67*		*49 - 106*
Phenol-d5 (Surr)	*36*		*10 - 59*
p-Terphenyl-d14 (Surr)	*97*		*26 - 119*

Lab Sample ID: LCSD 410-182953/3-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182953

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	50.0	44.5		ug/L		89	52 - 106	7	30
1,2,4,5-Tetrachlorobenzene	50.0	36.0		ug/L		72	43 - 94	10	30
1,2,4-Trichlorobenzene	50.0	31.3		ug/L		63	44 - 142	13	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-182953/3-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182953

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	35.1		ug/L		70	36 - 87	14	30
1,2-Diphenylhydrazine	50.0	46.2		ug/L		92	69 - 117	11	30
1,3-Dichlorobenzene	50.0	35.0		ug/L		70	30 - 85	17	30
1,4-Dichlorobenzene	50.0	33.9		ug/L		68	32 - 85	17	30
1,4-Dioxane	50.0	19.6		ug/L		39	30 - 60	2	30
1-Methylnaphthalene	50.0	41.1		ug/L		82	53 - 91	13	30
1-Methylphenanthrene	50.0	45.3		ug/L		91	56 - 128	9	30
2,2'-oxybis[1-chloropropane]	50.0	55.1		ug/L		110	48 - 110	12	30
2,3,4,6-Tetrachlorophenol	50.0	40.8		ug/L		82	72 - 115	10	30
2,3-Dichloroaniline	50.0	44.2		ug/L		88	65 - 118	6	30
2,4,5-Trichlorophenol	50.0	48.1		ug/L		96	70 - 110	11	30
2,4,6-Trichlorophenol	50.0	48.5		ug/L		97	37 - 144	9	30
2,4-Dichlorophenol	50.0	44.9		ug/L		90	39 - 135	9	30
2,4-Dimethylphenol	50.0	40.6		ug/L		81	32 - 120	9	30
2,4-Dinitrophenol	100	88.0		ug/L		88	10 - 191	5	30
2,4-Dinitrotoluene	50.0	48.8		ug/L		98	39 - 139	10	30
2,6-Dichlorophenol	50.0	44.4		ug/L		89	48 - 114	8	30
2,6-Dinitrotoluene	50.0	49.8		ug/L		100	50 - 158	11	30
2-Chloronaphthalene	50.0	39.5		ug/L		79	60 - 120	10	24
2-Chlorophenol	50.0	44.8		ug/L		90	23 - 134	7	30
2-Methylnaphthalene	50.0	39.0		ug/L		78	50 - 100	12	30
2-Methylphenol	50.0	41.8		ug/L		84	56 - 99	12	30
2-Nitroaniline	50.0	50.0		ug/L		100	71 - 119	10	30
2-Nitrophenol	50.0	50.3		ug/L		101	29 - 182	9	30
3,3'-Dichlorobenzidine	100	90.3		ug/L		90	10 - 200	13	30
3-Nitroaniline	50.0	48.2		ug/L		96	64 - 113	9	30
4,6-Dinitro-2-methylphenol	100	112		ug/L		112	10 - 181	7	30
4-Bromophenyl-phenylether	50.0	46.6		ug/L		93	53 - 127	6	30
4-Chloro-3-methylphenol	50.0	39.9		ug/L		80	22 - 147	9	30
4-Chloroaniline	50.0	42.9		ug/L		86	47 - 93	9	30
4-Chlorophenyl-phenylether	50.0	44.1		ug/L		88	25 - 158	14	30
4-Methylphenol	50.0	34.6		ug/L		69	47 - 96	11	30
4-Nitroaniline	50.0	46.5		ug/L		93	52 - 112	8	30
4-Nitrophenol	100	37.3		ug/L		37	10 - 132	2	30
Acenaphthene	50.0	43.7		ug/L		87	47 - 145	7	30
Acenaphthylene	50.0	48.0		ug/L		96	33 - 145	12	30
Acetophenone	50.0	42.4		ug/L		85	64 - 101	15	30
Aniline	50.0	35.5		ug/L		71	24 - 79	9	30
Anthracene	50.0	49.3		ug/L		99	27 - 133	8	30
a-Terpineol	50.0	46.0		ug/L		92	55 - 122	8	30
Benzidine	100	43.7	J	ug/L		44	10 - 48	17	30
Benzo[a]anthracene	50.0	49.4		ug/L		99	33 - 143	4	30
Benzo[a]pyrene	50.0	50.3		ug/L		101	17 - 163	1	30
Benzo[b]fluoranthene	50.0	43.6		ug/L		87	24 - 159	5	30
Benzo[g,h,i]perylene	50.0	54.7		ug/L		109	10 - 200	2	30
Benzo[k]fluoranthene	50.0	52.5		ug/L		105	11 - 162	4	30
Benzoic acid	50.0	25.7	J	ug/L		51	10 - 74	6	30
Benzyl alcohol	50.0	36.7		ug/L		73	52 - 109	8	30
Bis(2-chloroethoxy)methane	50.0	41.2		ug/L		82	33 - 184	8	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-182953/3-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182953

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether			50.0	43.3		ug/L		87	12 - 158	15	30
Bis(2-ethylhexyl) phthalate			50.0	63.9		ug/L		128	10 - 158	7	30
Butylbenzylphthalate			50.0	47.4	*1	ug/L		95	10 - 152	99	30
Carbazole			50.0	48.8		ug/L		98	72 - 114	8	30
Chrysene			50.0	49.4		ug/L		99	17 - 168	5	30
Dibenz(a,h)anthracene			50.0	53.2		ug/L		106	10 - 200	4	30
Dibenzofuran			50.0	44.3		ug/L		89	64 - 106	9	30
Diethylphthalate			50.0	41.8	*1	ug/L		84	10 - 120	57	30
Dimethylphthalate			50.0	32.2	*1	ug/L		64	10 - 120	142	30
Di-n-butyl phthalate			50.0	52.1	*1	ug/L		104	10 - 120	32	30
Di-n-octyl phthalate			50.0	66.5		ug/L		133	10 - 146	6	30
Diphenyl ether			50.0	42.0		ug/L		84	59 - 105	7	30
Fluoranthene			50.0	44.8		ug/L		90	26 - 137	6	30
Fluorene			50.0	45.6		ug/L		91	59 - 121	8	30
Hexachlorobenzene			50.0	47.6		ug/L		95	10 - 152	10	30
Hexachlorobutadiene			50.0	28.9		ug/L		58	24 - 120	13	30
Hexachlorocyclopentadiene			50.0	14.3	J	ug/L		29	10 - 79	19	30
Hexachloroethane			50.0	30.3		ug/L		61	40 - 120	15	30
Indeno[1,2,3-cd]pyrene			50.0	46.4		ug/L		93	10 - 171	5	30
Isophorone			50.0	41.9		ug/L		84	21 - 196	9	30
Naphthalene			50.0	38.7		ug/L		77	21 - 133	8	30
n-Decane			50.0	41.8		ug/L		84	31 - 93	12	30
n-Docosane			50.0	77.1	*+	ug/L		154	55 - 152	12	30
n-Eicosane			50.0	65.6		ug/L		131	49 - 151	5	30
n-Hexadecane			50.0	55.3		ug/L		111	50 - 127	8	30
Nitrobenzene			50.0	39.5		ug/L		79	35 - 180	13	30
N-Nitrosodimethylamine			50.0	30.8		ug/L		62	38 - 74	12	30
N-Nitrosodi-n-propylamine			50.0	41.3		ug/L		83	10 - 200	16	30
N-Nitrosodiphenylamine			42.5	42.7		ug/L		100	72 - 113	11	30
n-Octadecane			50.0	59.3		ug/L		119	59 - 133	6	30
n-Tetradecane			50.0	54.6		ug/L		109	46 - 113	8	30
Pentachlorophenol			100	85.8		ug/L		86	14 - 176	8	30
Phenanthrene			50.0	48.6		ug/L		97	54 - 120	7	30
Phenol			50.0	20.1		ug/L		40	10 - 120	8	30
Pyrene			50.0	54.7		ug/L		109	52 - 120	14	30
Pyridine			100	45.3		ug/L		45	27 - 52	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*91*		*23 - 140*
2-Fluorobiphenyl (Surr)	*75*		*36 - 101*
2-Fluorophenol (Surr)	*50*		*10 - 77*
Nitrobenzene-d5 (Surr)	*72*		*49 - 106*
Phenol-d5 (Surr)	*34*		*10 - 59*
p-Terphenyl-d14 (Surr)	*112*		*26 - 119*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-182953/5-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182953

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiethylamine			50.0	41.5		ug/L		83	75 - 110	10	30
N-Nitrosodi-n-butylamine			50.0	33.5		ug/L		67	57 - 101	0	30
N-Nitrosopyrrolidine			50.0	38.5		ug/L		77	65 - 112	10	30
o-Toluidine			50.0	34.1		ug/L		68	52 - 82	2	30
Pentachlorobenzene			50.0	31.9		ug/L		64	27 - 108	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*86*		*23 - 140*
2-Fluorobiphenyl (Surr)	*63*		*36 - 101*
2-Fluorophenol (Surr)	*55*		*10 - 77*
Nitrobenzene-d5 (Surr)	*67*		*49 - 106*
Phenol-d5 (Surr)	*37*		*10 - 59*
p-Terphenyl-d14 (Surr)	*101*		*26 - 119*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-182685/1-A
Matrix: Water
Analysis Batch: 182623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/14/21 09:10	10/14/21 10:15	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/14/21 09:10	10/14/21 10:15	1
Methane (1C)	ND		5.0	3.0	ug/L		10/14/21 09:10	10/14/21 10:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*94*		*28 - 130*	*10/14/21 09:10*	*10/14/21 10:15*	*1*

Lab Sample ID: LCS 410-182685/2-A
Matrix: Water
Analysis Batch: 182623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182685

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane (1C)			59.4	58.1		ug/L		98	85 - 115
Ethene (1C)			60.4	58.5		ug/L		97	83 - 115
Methane (1C)			59.4	56.4		ug/L		95	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*93*		*28 - 130*

Lab Sample ID: LCSD 410-182685/3-A
Matrix: Water
Analysis Batch: 182623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182685

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane (1C)			59.4	56.3		ug/L		95	85 - 115	3	20
Ethene (1C)			60.4	56.4		ug/L		93	83 - 115	4	20
Methane (1C)			59.4	54.6		ug/L		92	85 - 115	3	20

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Propene (1C)	91		28 - 130

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 410-184309/1-A
Matrix: Water
Analysis Batch: 184816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	ND		0.010	0.0050	ug/L		10/19/21 10:11	10/20/21 07:15	1
alpha-BHC (1C)	ND		0.030	0.012	ug/L		10/19/21 10:11	10/20/21 07:15	1
beta-BHC (1C)	ND		0.10	0.046	ug/L		10/19/21 10:11	10/20/21 07:15	1
alpha-Chlordane (1C)	ND		0.010	0.0060	ug/L		10/19/21 10:11	10/20/21 07:15	1
delta-BHC (1C)	ND		0.030	0.011	ug/L		10/19/21 10:11	10/20/21 07:15	1
Dieldrin (1C)	ND		0.020	0.0080	ug/L		10/19/21 10:11	10/20/21 07:15	1
Endosulfan I (1C)	ND		0.010	0.0030	ug/L		10/19/21 10:11	10/20/21 07:15	1
Endosulfan II (1C)	ND		0.020	0.0098	ug/L		10/19/21 10:11	10/20/21 07:15	1
Endosulfan sulfate (1C)	ND		0.020	0.010	ug/L		10/19/21 10:11	10/20/21 07:15	1
Endrin (1C)	ND		0.10	0.0090	ug/L		10/19/21 10:11	10/20/21 07:15	1
Endrin aldehyde (1C)	ND		0.020	0.0091	ug/L		10/19/21 10:11	10/20/21 07:15	1
gamma-BHC (Lindane) (1C)	ND		0.010	0.0052	ug/L		10/19/21 10:11	10/20/21 07:15	1
Heptachlor (1C)	ND		0.010	0.0080	ug/L		10/19/21 10:11	10/20/21 07:15	1
Heptachlor epoxide (1C)	ND		0.10	0.0050	ug/L		10/19/21 10:11	10/20/21 07:15	1
4,4'-DDD (1C)	ND		0.020	0.0090	ug/L		10/19/21 10:11	10/20/21 07:15	1
4,4'-DDE (1C)	ND		0.040	0.020	ug/L		10/19/21 10:11	10/20/21 07:15	1
4,4'-DDT (1C)	ND		0.020	0.010	ug/L		10/19/21 10:11	10/20/21 07:15	1
Toxaphene (1C)	ND		1.0	0.36	ug/L		10/19/21 10:11	10/20/21 07:15	1
Chlordane (n.o.s.) (1C)	ND		0.50	0.23	ug/L		10/19/21 10:11	10/20/21 07:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	32		32 - 149	10/19/21 10:11	10/20/21 07:15	1
DCB Decachlorobiphenyl (Surr) (2C)	32		32 - 149	10/19/21 10:11	10/20/21 07:15	1
Tetrachloro-m-xylene (1C)	50		29 - 129	10/19/21 10:11	10/20/21 07:15	1
Tetrachloro-m-xylene (2C)	44		29 - 129	10/19/21 10:11	10/20/21 07:15	1

Lab Sample ID: LCS 410-184309/2-A
Matrix: Water
Analysis Batch: 184816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin (1C)	0.101	0.0801		ug/L		79	42 - 140
alpha-BHC (1C)	0.101	0.0859		ug/L		85	37 - 140
beta-BHC (1C)	0.100	0.0915	J	ug/L		91	17 - 140
alpha-Chlordane (1C)	0.100	0.0922		ug/L		92	45 - 147
delta-BHC (1C)	0.100	0.0900		ug/L		90	19 - 140
Dieldrin (1C)	0.200	0.198		ug/L		99	36 - 146
Endosulfan I (1C)	0.101	0.0914		ug/L		90	45 - 153
Endosulfan II (1C)	0.201	0.185		ug/L		92	10 - 200
Endosulfan sulfate (1C)	0.201	0.185		ug/L		92	26 - 144
Endrin (1C)	0.200	0.194		ug/L		97	30 - 147
Endrin aldehyde (1C)	0.201	0.172		ug/L		85	60 - 140

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 410-184309/2-A
Matrix: Water
Analysis Batch: 184816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-BHC (Lindane) (1C)	0.100	0.0853		ug/L		85	32 - 140
Heptachlor (1C)	0.101	0.0848		ug/L		84	34 - 140
Heptachlor epoxide (1C)	0.100	0.0966	J	ug/L		97	37 - 142
4,4'-DDD (1C)	0.201	0.197		ug/L		98	31 - 141
4,4'-DDE (1C)	0.201	0.181		ug/L		90	30 - 146
4,4'-DDT (1C)	0.201	0.229		ug/L		114	25 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*30*	*S1-*	*32 - 149*
DCB Decachlorobiphenyl (Surr) (2C)	*30*	*S1-*	*32 - 149*
Tetrachloro-m-xylene (1C)	*65*		*29 - 129*
Tetrachloro-m-xylene (2C)	*54*		*29 - 129*

Lab Sample ID: LCSD 410-184309/3-A
Matrix: Water
Analysis Batch: 184816

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 184309

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin (1C)	0.101	0.0845		ug/L		83	42 - 140	5	35
alpha-BHC (1C)	0.101	0.0902		ug/L		89	37 - 140	5	36
beta-BHC (1C)	0.100	0.0958	J	ug/L		96	17 - 140	13	44
alpha-Chlordane (1C)	0.100	0.100		ug/L		100	45 - 147	8	35
delta-BHC (1C)	0.100	0.100		ug/L		100	19 - 140	11	52
Dieldrin (1C)	0.200	0.213		ug/L		106	36 - 146	7	49
Endosulfan I (1C)	0.101	0.0926		ug/L		91	45 - 153	1	28
Endosulfan II (1C)	0.201	0.205		ug/L		102	10 - 200	10	53
Endosulfan sulfate (1C)	0.201	0.200		ug/L		99	26 - 144	8	38
Endrin (1C)	0.200	0.211		ug/L		106	30 - 147	8	48
Endrin aldehyde (1C)	0.201	0.186		ug/L		92	60 - 140	8	30
gamma-BHC (Lindane) (1C)	0.100	0.0940		ug/L		94	32 - 140	10	39
Heptachlor (1C)	0.101	0.0913		ug/L		90	34 - 140	7	43
Heptachlor epoxide (1C)	0.100	0.0989	J	ug/L		99	37 - 142	2	26
4,4'-DDD (1C)	0.201	0.204		ug/L		102	31 - 141	3	39
4,4'-DDE (1C)	0.201	0.200		ug/L		99	30 - 146	10	35
4,4'-DDT (1C)	0.201	0.235		ug/L		117	25 - 160	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*24*	*S1-*	*32 - 149*
DCB Decachlorobiphenyl (Surr) (2C)	*23*	*S1-*	*32 - 149*
Tetrachloro-m-xylene (1C)	*64*		*29 - 129*
Tetrachloro-m-xylene (2C)	*56*		*29 - 129*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-184310/1-A
Matrix: Water
Analysis Batch: 184784

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.50	0.096	ug/L		10/19/21 10:18	10/19/21 22:37	1
PCB-1221 (1C)	ND		0.50	0.21	ug/L		10/19/21 10:18	10/19/21 22:37	1
PCB-1232 (1C)	ND		0.50	0.13	ug/L		10/19/21 10:18	10/19/21 22:37	1
PCB-1242 (1C)	ND		0.50	0.20	ug/L		10/19/21 10:18	10/19/21 22:37	1
PCB-1248 (1C)	ND		0.50	0.21	ug/L		10/19/21 10:18	10/19/21 22:37	1
PCB-1254 (1C)	ND		0.50	0.16	ug/L		10/19/21 10:18	10/19/21 22:37	1
PCB-1260 (1C)	ND		0.50	0.079	ug/L		10/19/21 10:18	10/19/21 22:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*58*		*10 - 127*	*10/19/21 10:18*	*10/19/21 22:37*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*71*		*18 - 115*	*10/19/21 10:18*	*10/19/21 22:37*	*1*

Lab Sample ID: LCS 410-184310/2-A
Matrix: Water
Analysis Batch: 184784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184310

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016 (1C)			5.02	4.77		ug/L		95	50 - 140		
PCB-1260 (1C)			5.04	5.57		ug/L		110	10 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*47*		*10 - 127*
Tetrachloro-m-xylene (Surr) (1C)	*71*		*18 - 115*

Lab Sample ID: LCSD 410-184310/3-A
Matrix: Water
Analysis Batch: 184784

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 184310

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016 (1C)			5.02	4.56		ug/L		91	50 - 140	4	36
PCB-1260 (1C)			5.04	5.69		ug/L		113	10 - 140	2	38

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*44*		*10 - 127*
Tetrachloro-m-xylene (Surr) (1C)	*67*		*18 - 115*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-185343/5
Matrix: Water
Analysis Batch: 185343

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.30	mg/L			10/21/21 05:59	1
Chloride	ND		0.40	0.20	mg/L			10/21/21 05:59	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: LCS 410-185343/3
Matrix: Water
Analysis Batch: 185343

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			7.50	7.60		mg/L		101	90 - 110		
Chloride			3.00	3.19		mg/L		106	90 - 110		

Lab Sample ID: LCSD 410-185343/4
Matrix: Water
Analysis Batch: 185343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate			7.50	7.69		mg/L		103	90 - 110	1	20
Chloride			3.00	3.20		mg/L		107	90 - 110	0	20

Lab Sample ID: MB 410-185884/5
Matrix: Water
Analysis Batch: 185884

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.30	mg/L			10/22/21 05:39	1
Chloride	ND		0.40	0.20	mg/L			10/22/21 05:39	1

Lab Sample ID: LCS 410-185884/3
Matrix: Water
Analysis Batch: 185884

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			7.50	8.26		mg/L		110	90 - 110		
Chloride			3.00	3.15		mg/L		105	90 - 110		

Lab Sample ID: LCSD 410-185884/4
Matrix: Water
Analysis Batch: 185884

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate			7.50	8.22		mg/L		110	90 - 110	1	20
Chloride			3.00	3.16		mg/L		105	90 - 110	0	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-183106/1-A
Matrix: Water
Analysis Batch: 183398

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 183106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		10/15/21 06:00	10/15/21 13:40	1
Aluminum	ND		25	20	ug/L		10/15/21 06:00	10/15/21 13:40	1
Arsenic	ND		2.0	0.68	ug/L		10/15/21 06:00	10/15/21 13:40	1
Barium	ND		2.0	0.75	ug/L		10/15/21 06:00	10/15/21 13:40	1
Cadmium	ND		0.50	0.15	ug/L		10/15/21 06:00	10/15/21 13:40	1
Calcium	ND		100	74	ug/L		10/15/21 06:00	10/15/21 13:40	1
Chromium	ND		2.0	0.33	ug/L		10/15/21 06:00	10/15/21 13:40	1
Cobalt	ND		0.50	0.16	ug/L		10/15/21 06:00	10/15/21 13:40	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-183106/1-A
Matrix: Water
Analysis Batch: 183398

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 183106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		1.0	0.36	ug/L		10/15/21 06:00	10/15/21 13:40	1
Iron	29.1	J	50	23	ug/L		10/15/21 06:00	10/15/21 13:40	1
Lead	ND		0.50	0.071	ug/L		10/15/21 06:00	10/15/21 13:40	1
Magnesium	ND		50	10	ug/L		10/15/21 06:00	10/15/21 13:40	1
Manganese	2.29		2.0	0.63	ug/L		10/15/21 06:00	10/15/21 13:40	1
Potassium	ND		200	110	ug/L		10/15/21 06:00	10/15/21 13:40	1
Selenium	ND		1.0	0.28	ug/L		10/15/21 06:00	10/15/21 13:40	1
Silver	ND		0.50	0.17	ug/L		10/15/21 06:00	10/15/21 13:40	1
Sodium	ND		200	50	ug/L		10/15/21 06:00	10/15/21 13:40	1
Thallium	ND		0.50	0.13	ug/L		10/15/21 06:00	10/15/21 13:40	1
Vanadium	ND		4.0	0.79	ug/L		10/15/21 06:00	10/15/21 13:40	1
Zinc	ND		10	6.2	ug/L		10/15/21 06:00	10/15/21 13:40	1

Lab Sample ID: MB 410-183106/1-A
Matrix: Water
Analysis Batch: 183469

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 183106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.50	0.12	ug/L		10/15/21 06:00	10/15/21 15:31	1
Nickel	ND		1.0	0.60	ug/L		10/15/21 06:00	10/15/21 15:31	1

Lab Sample ID: LCS 410-183106/2-A
Matrix: Water
Analysis Batch: 183398

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 183106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	100	105		ug/L		105	85 - 115
Aluminum	5000	5060		ug/L		101	85 - 115
Arsenic	500	454		ug/L		91	85 - 115
Barium	500	524		ug/L		105	85 - 115
Cadmium	50.0	52.8		ug/L		106	85 - 115
Calcium	5000	4710		ug/L		94	85 - 115
Chromium	500	498		ug/L		100	85 - 115
Cobalt	500	460	E	ug/L		92	85 - 115
Copper	500	463		ug/L		93	85 - 115
Iron	5000	4990		ug/L		100	85 - 115
Lead	50.0	51.5		ug/L		103	85 - 115
Magnesium	5000	5150		ug/L		103	85 - 115
Manganese	500	502		ug/L		100	85 - 115
Potassium	5000	5020		ug/L		100	85 - 115
Selenium	100	105		ug/L		105	85 - 115
Silver	49.9	51.2		ug/L		103	85 - 115
Sodium	5000	5160		ug/L		103	85 - 115
Thallium	100	103		ug/L		104	85 - 115
Vanadium	500	502		ug/L		100	85 - 115
Zinc	500	477		ug/L		95	85 - 115

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-183106/2-A
Matrix: Water
Analysis Batch: 183469

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 183106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	49.9	50.1		ug/L		100	85 - 115
Nickel	500	469		ug/L		94	85 - 115

Lab Sample ID: LCSD 410-183106/3-A
Matrix: Water
Analysis Batch: 183398

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 183106

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	100	103		ug/L		103	85 - 115	2	20
Aluminum	5000	5190		ug/L		104	85 - 115	3	20
Arsenic	500	448		ug/L		90	85 - 115	1	20
Barium	500	523		ug/L		105	85 - 115	0	20
Cadmium	50.0	52.8		ug/L		106	85 - 115	0	20
Calcium	5000	4940		ug/L		99	85 - 115	5	20
Chromium	500	501		ug/L		100	85 - 115	0	20
Cobalt	500	454	E	ug/L		91	85 - 115	1	20
Copper	500	457		ug/L		91	85 - 115	1	20
Iron	5000	5090		ug/L		102	85 - 115	2	20
Lead	50.0	50.1		ug/L		100	85 - 115	3	20
Magnesium	5000	5190		ug/L		104	85 - 115	1	20
Manganese	500	513		ug/L		102	85 - 115	2	20
Potassium	5000	5050		ug/L		101	85 - 115	1	20
Selenium	100	103		ug/L		103	85 - 115	3	20
Silver	49.9	51.2		ug/L		103	85 - 115	0	20
Sodium	5000	5160		ug/L		103	85 - 115	0	20
Thallium	100	101		ug/L		102	85 - 115	2	20
Vanadium	500	505		ug/L		101	85 - 115	1	20
Zinc	500	461		ug/L		92	85 - 115	3	20

Lab Sample ID: LCSD 410-183106/3-A
Matrix: Water
Analysis Batch: 183469

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 183106

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	49.9	48.2		ug/L		97	85 - 115	4	20
Nickel	500	457		ug/L		92	85 - 115	3	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-183098/1-A
Matrix: Water
Analysis Batch: 183497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/15/21 05:11	10/15/21 16:39	1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 410-183098/2-A
Matrix: Water
Analysis Batch: 183497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183098

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00100	0.00107		mg/L		107	85 - 115		

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-183502/1
Matrix: Water
Analysis Batch: 183502

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			10/15/21 17:52	1

Lab Sample ID: LCS 410-183502/2
Matrix: Water
Analysis Batch: 183502

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
HEM (Oil & Grease)			40.0	36.10		mg/L		90	78 - 114		

Lab Sample ID: LCSD 410-183502/3
Matrix: Water
Analysis Batch: 183502

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)			40.0	38.20		mg/L		95	78 - 114	6	13

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-183047/1
Matrix: Water
Analysis Batch: 183047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			10/14/21 19:45	1

Lab Sample ID: LCS 410-183047/2
Matrix: Water
Analysis Batch: 183047

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Turbidity			10.0	9.55		NTU		96	90 - 104		

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-184075/117
Matrix: Water
Analysis Batch: 184075

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			10/16/21 02:46	1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-184075/122
Matrix: Water
Analysis Batch: 184075

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Alkalinity as CaCO3 to pH 4.5			189	164		mg/L		87	82 - 106		

Lab Sample ID: 410-59010-1 MS
Matrix: Groundwater
Analysis Batch: 184075

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Alkalinity as CaCO3 to pH 4.5	360		189	526		mg/L		90	82 - 106		

Lab Sample ID: 410-59010-1 DU
Matrix: Groundwater
Analysis Batch: 184075

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	360			365		mg/L				3	5

Lab Sample ID: 410-59010-2 DU
Matrix: Groundwater
Analysis Batch: 184075

Client Sample ID: Outfall-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	370			360		mg/L				3	5

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-182919/6
Matrix: Water
Analysis Batch: 182919

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			10/14/21 10:31	1

Lab Sample ID: LCS 410-182919/7
Matrix: Water
Analysis Batch: 182919

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Hardness			40.0	39.8		mg/L		99	91 - 108		

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-184076/117
Matrix: Water
Analysis Batch: 184076

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			10/16/21 02:46	1

Method: 2510B-2011 - Conductivity, Specific Conductance (Continued)

Lab Sample ID: LCS 410-184076/123
Matrix: Water
Analysis Batch: 184076

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Specific Conductance			147	145		umhos/cm		99	97 - 103		

Lab Sample ID: 410-59010-1 DU
Matrix: Groundwater
Analysis Batch: 184076

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	3700			3670		umhos/cm				2	5

Lab Sample ID: 410-59010-2 DU
Matrix: Groundwater
Analysis Batch: 184076

Client Sample ID: Outfall-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	3600			3650		umhos/cm				0.3	5

Method: 2540C-2011 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-183902/1
Matrix: Water
Analysis Batch: 183902

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			10/18/21 08:56	1

Lab Sample ID: LCS 410-183902/2
Matrix: Water
Analysis Batch: 183902

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			200	195		mg/L		97	72 - 127		

Method: 2540F-2011 - Solids, Settleable

Lab Sample ID: MB 410-183041/1
Matrix: Water
Analysis Batch: 183041

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			10/14/21 19:05	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-185118/3-A
Matrix: Water
Analysis Batch: 185657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		10/20/21 14:16	10/21/21 12:25	1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 410-185118/1-A
Matrix: Water
Analysis Batch: 185657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 185118

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	4.00	4.33		mg/L		108	90 - 110

Lab Sample ID: LCSD 410-185118/2-A
Matrix: Water
Analysis Batch: 185657

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 185118

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	4.00	3.77		mg/L		94	90 - 110	14	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-183382/2-A
Matrix: Water
Analysis Batch: 183936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		10/15/21 13:51	10/18/21 10:06	1

Lab Sample ID: LCS 410-183382/1-A
Matrix: Water
Analysis Batch: 183936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Phosphorus as PO4	4.07	3.67		mg/L		90	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 410-183241/4
Matrix: Water
Analysis Batch: 183241

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			10/15/21 08:22	1

Lab Sample ID: LCS 410-183241/5
Matrix: Water
Analysis Batch: 183241

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	500	521		mg/L		104	94 - 110

Lab Sample ID: LCSD 410-183241/6
Matrix: Water
Analysis Batch: 183241

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	500	520		mg/L		104	94 - 110	0	5

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-185060/19
Matrix: Water
Analysis Batch: 185060

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			10/20/21 07:54	1

Lab Sample ID: LCS 410-185060/17
Matrix: Water
Analysis Batch: 185060

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.250	0.249		mg/L		99	90 - 110

Lab Sample ID: LCSD 410-185060/18
Matrix: Water
Analysis Batch: 185060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.250	0.249		mg/L		100	90 - 110	0	6

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-184077/118
Matrix: Water
Analysis Batch: 184077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		S.U.		101	95 - 105

Lab Sample ID: 410-59010-1 DU
Matrix: Groundwater
Analysis Batch: 184077

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.1	HF	8.2		S.U.		1	4
Temperature	23.4	HF	23.4		Degrees C		0	4

Lab Sample ID: 410-59010-2 DU
Matrix: Groundwater
Analysis Batch: 184077

Client Sample ID: Outfall-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.2	HF	8.2		S.U.		0.2	4
Temperature	23.5	HF	23.6		Degrees C		0.3	4

Method: 5210 B-2011 - BOD, 5-Day

Lab Sample ID: SCB 410-185036/4
Matrix: Water
Analysis Batch: 185036

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.679		0.0000010	0.0000010	mg/L			10/14/21 18:25	1

Method: 5210 B-2011 - BOD, 5-Day (Continued)

Lab Sample ID: USB 410-185036/2
Matrix: Water
Analysis Batch: 185036

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.153		0.0000010	0.0000010	mg/L			10/14/21 18:25	1

Lab Sample ID: LCS 410-185036/5
Matrix: Water
Analysis Batch: 185036

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	197		mg/L		100	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 460-808124/1
Matrix: Water
Analysis Batch: 808124

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2.5	2.5	mg/L			10/20/21 07:57	1

Lab Sample ID: LCSSRM 460-808124/2
Matrix: Water
Analysis Batch: 808124

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	88.7	82.0		mg/L		92.4	82.2 - 110.9

GC/MS VOA

Analysis Batch: 183303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	624.1	
410-59010-2	Outfall-001	Total/NA	Groundwater	624.1	
410-59010-3	QAQC_TB	Total/NA	Water	624.1	
MB 410-183303/5	Method Blank	Total/NA	Water	624.1	
LCS 410-183303/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-183303/1004	Lab Control Sample	Total/NA	Water	624.1	
410-59010-1 MS	Outfall-01A	Total/NA	Groundwater	624.1	
410-59010-1 MSD	Outfall-01A	Total/NA	Groundwater	624.1	

Analysis Batch: 183855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	8260C	
410-59010-2	Outfall-001	Total/NA	Groundwater	8260C	
410-59010-3	QAQC_TB	Total/NA	Water	8260C	
MB 410-183855/6	Method Blank	Total/NA	Water	8260C	
LCS 410-183855/4	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 182953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	625.1	
410-59010-2	Outfall-001	Total/NA	Groundwater	625.1	
MB 410-182953/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-182953/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCS 410-182953/4-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-182953/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
LCSD 410-182953/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 183988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	625.1	182953
410-59010-2	Outfall-001	Total/NA	Groundwater	625.1	182953
MB 410-182953/1-A	Method Blank	Total/NA	Water	625.1	182953
LCS 410-182953/2-A	Lab Control Sample	Total/NA	Water	625.1	182953
LCS 410-182953/4-A	Lab Control Sample	Total/NA	Water	625.1	182953
LCSD 410-182953/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	182953
LCSD 410-182953/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	182953

GC VOA

Analysis Batch: 182623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	RSK-175	182685
410-59010-2	Outfall-001	Total/NA	Groundwater	RSK-175	182685
MB 410-182685/1-A	Method Blank	Total/NA	Water	RSK-175	182685
LCS 410-182685/2-A	Lab Control Sample	Total/NA	Water	RSK-175	182685
LCSD 410-182685/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	182685

Prep Batch: 182685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	RSK-175	

GC VOA (Continued)

Prep Batch: 182685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-2	Outfall-001	Total/NA	Groundwater	RSK-175	
MB 410-182685/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-182685/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-182685/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

GC Semi VOA

Prep Batch: 184309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	608.3	
410-59010-2	Outfall-001	Total/NA	Groundwater	608.3	
MB 410-184309/1-A	Method Blank	Total/NA	Water	608.3	
LCS 410-184309/2-A	Lab Control Sample	Total/NA	Water	608.3	
LCSD 410-184309/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	

Prep Batch: 184310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	608.3	
410-59010-2	Outfall-001	Total/NA	Groundwater	608.3	
MB 410-184310/1-A	Method Blank	Total/NA	Water	608.3	
LCS 410-184310/2-A	Lab Control Sample	Total/NA	Water	608.3	
LCSD 410-184310/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	

Analysis Batch: 184784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	608.3	184310
410-59010-2	Outfall-001	Total/NA	Groundwater	608.3	184310
MB 410-184310/1-A	Method Blank	Total/NA	Water	608.3	184310
LCS 410-184310/2-A	Lab Control Sample	Total/NA	Water	608.3	184310
LCSD 410-184310/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	184310

Analysis Batch: 184816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	608.3	184309
410-59010-2	Outfall-001	Total/NA	Groundwater	608.3	184309
MB 410-184309/1-A	Method Blank	Total/NA	Water	608.3	184309
LCS 410-184309/2-A	Lab Control Sample	Total/NA	Water	608.3	184309
LCSD 410-184309/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	184309

HPLC/IC

Analysis Batch: 185343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	EPA 300.0 R2.1	
410-59010-1	Outfall-01A	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-185343/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-185343/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-185343/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 185884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-2	Outfall-001	Total/NA	Groundwater	EPA 300.0 R2.1	

HPLC/IC (Continued)

Analysis Batch: 185884 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-2	Outfall-001	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-185884/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-185884/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-185884/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 183098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	245.1	
410-59010-2	Outfall-001	Total/NA	Groundwater	245.1	
MB 410-183098/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-183098/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 183106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total Recoverable	Groundwater	200.8 Rev 5.4	
410-59010-2	Outfall-001	Total Recoverable	Groundwater	200.8 Rev 5.4	
MB 410-183106/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-183106/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	
LCSD 410-183106/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8 Rev 5.4	

Analysis Batch: 183398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-2	Outfall-001	Total Recoverable	Groundwater	200.8 Rev 5.4	183106
MB 410-183106/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	183106
LCS 410-183106/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	183106
LCSD 410-183106/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8 Rev 5.4	183106

Analysis Batch: 183469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total Recoverable	Groundwater	200.8 Rev 5.4	183106
410-59010-1	Outfall-01A	Total Recoverable	Groundwater	200.8 Rev 5.4	183106
410-59010-2	Outfall-001	Total Recoverable	Groundwater	200.8 Rev 5.4	183106
410-59010-2	Outfall-001	Total Recoverable	Groundwater	200.8 Rev 5.4	183106
MB 410-183106/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	183106
LCS 410-183106/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	183106
LCSD 410-183106/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8 Rev 5.4	183106

Analysis Batch: 183497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	245.1	183098
410-59010-2	Outfall-001	Total/NA	Groundwater	245.1	183098
MB 410-183098/1-A	Method Blank	Total/NA	Water	245.1	183098
LCS 410-183098/2-A	Lab Control Sample	Total/NA	Water	245.1	183098

General Chemistry

Analysis Batch: 178712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	SM 2330B	
410-59010-2	Outfall-001	Total/NA	Groundwater	SM 2330B	

General Chemistry

Analysis Batch: 182919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	2340C-2011	
410-59010-2	Outfall-001	Total/NA	Groundwater	2340C-2011	
MB 410-182919/6	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-182919/7	Lab Control Sample	Total/NA	Water	2340C-2011	

Analysis Batch: 183041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	2540F-2011	
410-59010-2	Outfall-001	Total/NA	Groundwater	2540F-2011	
MB 410-183041/1	Method Blank	Total/NA	Water	2540F-2011	

Analysis Batch: 183047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	180.1	
410-59010-2	Outfall-001	Total/NA	Groundwater	180.1	
MB 410-183047/1	Method Blank	Total/NA	Water	180.1	
LCS 410-183047/2	Lab Control Sample	Total/NA	Water	180.1	

Analysis Batch: 183241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	410.4	
410-59010-2	Outfall-001	Total/NA	Groundwater	410.4	
MB 410-183241/4	Method Blank	Total/NA	Water	410.4	
LCS 410-183241/5	Lab Control Sample	Total/NA	Water	410.4	
LCSD 410-183241/6	Lab Control Sample Dup	Total/NA	Water	410.4	

Prep Batch: 183382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	365.1	
410-59010-2	Outfall-001	Total/NA	Groundwater	365.1	
MB 410-183382/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-183382/1-A	Lab Control Sample	Total/NA	Water	365.1	

Analysis Batch: 183502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	1664A	
410-59010-2	Outfall-001	Total/NA	Groundwater	1664A	
MB 410-183502/1	Method Blank	Total/NA	Water	1664A	
LCS 410-183502/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-183502/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 183902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	2540C-2011	
410-59010-2	Outfall-001	Total/NA	Groundwater	2540C-2011	
MB 410-183902/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 410-183902/2	Lab Control Sample	Total/NA	Water	2540C-2011	

Analysis Batch: 183936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	365.1	183382

General Chemistry (Continued)

Analysis Batch: 183936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-2	Outfall-001	Total/NA	Groundwater	365.1	183382
MB 410-183382/2-A	Method Blank	Total/NA	Water	365.1	183382
LCS 410-183382/1-A	Lab Control Sample	Total/NA	Water	365.1	183382

Analysis Batch: 184075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	2320B-2011	
410-59010-2	Outfall-001	Total/NA	Groundwater	2320B-2011	
MB 410-184075/117	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-184075/122	Lab Control Sample	Total/NA	Water	2320B-2011	
410-59010-1 MS	Outfall-01A	Total/NA	Groundwater	2320B-2011	
410-59010-1 DU	Outfall-01A	Total/NA	Groundwater	2320B-2011	
410-59010-2 DU	Outfall-001	Total/NA	Groundwater	2320B-2011	

Analysis Batch: 184076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	2510B-2011	
410-59010-2	Outfall-001	Total/NA	Groundwater	2510B-2011	
MB 410-184076/117	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-184076/123	Lab Control Sample	Total/NA	Water	2510B-2011	
410-59010-1 DU	Outfall-01A	Total/NA	Groundwater	2510B-2011	
410-59010-2 DU	Outfall-001	Total/NA	Groundwater	2510B-2011	

Analysis Batch: 184077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	4500 H+ B-2011	
410-59010-2	Outfall-001	Total/NA	Groundwater	4500 H+ B-2011	
LCS 410-184077/118	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	
410-59010-1 DU	Outfall-01A	Total/NA	Groundwater	4500 H+ B-2011	
410-59010-2 DU	Outfall-001	Total/NA	Groundwater	4500 H+ B-2011	

Analysis Batch: 184278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	353.2	
410-59010-2	Outfall-001	Total/NA	Groundwater	353.2	

Prep Batch: 184843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	351.2	

Analysis Batch: 185036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	5210 B-2011	
410-59010-2	Outfall-001	Total/NA	Groundwater	5210 B-2011	
SCB 410-185036/4	Method Blank	Total/NA	Water	5210 B-2011	
USB 410-185036/2	Method Blank	Total/NA	Water	5210 B-2011	
LCS 410-185036/5	Lab Control Sample	Total/NA	Water	5210 B-2011	

Analysis Batch: 185060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	420.4	

General Chemistry (Continued)

Analysis Batch: 185060 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-2	Outfall-001	Total/NA	Groundwater	420.4	
MB 410-185060/19	Method Blank	Total/NA	Water	420.4	
LCS 410-185060/17	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-185060/18	Lab Control Sample Dup	Total/NA	Water	420.4	

Prep Batch: 185118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-2	Outfall-001	Total/NA	Groundwater	351.2	
MB 410-185118/3-A	Method Blank	Total/NA	Water	351.2	
LCS 410-185118/1-A	Lab Control Sample	Total/NA	Water	351.2	
LCSD 410-185118/2-A	Lab Control Sample Dup	Total/NA	Water	351.2	

Analysis Batch: 185657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	351.2	184843
410-59010-2	Outfall-001	Total/NA	Groundwater	351.2	185118
MB 410-185118/3-A	Method Blank	Total/NA	Water	351.2	185118
LCS 410-185118/1-A	Lab Control Sample	Total/NA	Water	351.2	185118
LCSD 410-185118/2-A	Lab Control Sample Dup	Total/NA	Water	351.2	185118

Analysis Batch: 808124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59010-1	Outfall-01A	Total/NA	Groundwater	SM 2540D	
410-59010-2	Outfall-001	Total/NA	Groundwater	SM 2540D	
MB 460-808124/1	Method Blank	Total/NA	Water	SM 2540D	
LCSSRM 460-808124/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: Outfall-01A

Date Collected: 10/13/21 09:31
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-1

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	183303	10/15/21 15:26	UJML	ELLE
Total/NA	Analysis	8260C		1	183855	10/18/21 20:09	TQ4J	ELLE
Total/NA	Prep	625.1			182953	10/14/21 17:30	QQ3P	ELLE
Total/NA	Analysis	625.1		1	183988	10/18/21 18:09	SJ89	ELLE
Total/NA	Prep	RSK-175			182685	10/14/21 09:10	LXF2	ELLE
Total/NA	Analysis	RSK-175		1	182623	10/14/21 13:38	LXF2	ELLE
Total/NA	Prep	608.3			184310	10/19/21 10:18	BLX5	ELLE
Total/NA	Analysis	608.3		1	184784	10/19/21 22:48	E9VJ	ELLE
Total/NA	Prep	608.3			184309	10/19/21 10:11	BLX5	ELLE
Total/NA	Analysis	608.3		1	184816	10/20/21 10:42	WN7O	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		20	185343	10/21/21 09:40	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		200	185343	10/21/21 09:50	W5UX	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183106	10/15/21 06:00	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	183469	10/15/21 15:51	S4PD	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183106	10/15/21 06:00	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		10	183469	10/15/21 16:01	S4PD	ELLE
Total/NA	Prep	245.1			183098	10/15/21 05:11	UAMX	ELLE
Total/NA	Analysis	245.1		1	183497	10/15/21 16:51	UEFS	ELLE
Total/NA	Analysis	1664A		1	183502	10/15/21 17:52	QT6L	ELLE
Total/NA	Analysis	180.1		1	183047	10/14/21 19:45	DI9Q	ELLE
Total/NA	Analysis	2320B-2011		1	184075	10/16/21 03:17	DI9Q	ELLE
Total/NA	Analysis	2340C-2011		10	182919	10/14/21 11:36	USAE	ELLE
Total/NA	Analysis	2510B-2011		1	184076	10/16/21 03:17	DI9Q	ELLE
Total/NA	Analysis	2540C-2011		1	183902	10/18/21 08:56	M98K	ELLE
Total/NA	Analysis	2540F-2011		1	183041	10/14/21 19:05	DI9Q	ELLE
Total/NA	Prep	351.2			184843	10/20/21 05:50	UNJS	ELLE
Total/NA	Analysis	351.2		1	185657	10/21/21 11:33	JCG7	ELLE
Total/NA	Analysis	353.2		1	184278	10/19/21 07:03	USJM	ELLE
Total/NA	Prep	365.1			183382	10/15/21 13:51	F8AU	ELLE
Total/NA	Analysis	365.1		1	183936	10/18/21 10:11	MFV9	ELLE
Total/NA	Analysis	410.4		1	183241	10/15/21 08:33	USAE	ELLE
Total/NA	Analysis	420.4		1	185060	10/20/21 08:09	P684	ELLE
Total/NA	Analysis	4500 H+ B-2011		1	184077	10/16/21 03:17	DI9Q	ELLE
Total/NA	Analysis	5210 B-2011		1	185036	10/14/21 19:06	F8TI	ELLE
Total/NA	Analysis	SM 2330B		1	178712	10/14/21 05:00	USJM	ELLE
Total/NA	Analysis	SM 2540D		1	808124	10/20/21 07:57	AAP	TAL EDI

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: Outfall-001
Date Collected: 10/13/21 10:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-2
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	183303	10/15/21 16:32	UJML	ELLE
Total/NA	Analysis	8260C		1	183855	10/18/21 20:28	TQ4J	ELLE
Total/NA	Prep	625.1			182953	10/14/21 17:30	QQ3P	ELLE
Total/NA	Analysis	625.1		1	183988	10/18/21 18:29	SJ89	ELLE
Total/NA	Prep	RSK-175			182685	10/14/21 09:10	LXF2	ELLE
Total/NA	Analysis	RSK-175		1	182623	10/14/21 13:53	LXF2	ELLE
Total/NA	Prep	608.3			184310	10/19/21 10:18	BLX5	ELLE
Total/NA	Analysis	608.3		1	184784	10/19/21 22:58	E9VJ	ELLE
Total/NA	Prep	608.3			184309	10/19/21 10:11	BLX5	ELLE
Total/NA	Analysis	608.3		1	184816	10/20/21 10:54	WN7O	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		20	185884	10/22/21 11:06	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		200	185884	10/22/21 11:17	GJ35	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183106	10/15/21 06:00	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	183469	10/15/21 15:55	S4PD	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183106	10/15/21 06:00	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		10	183469	10/15/21 16:03	S4PD	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183106	10/15/21 06:00	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	183398	10/15/21 13:51	S4PD	ELLE
Total/NA	Prep	245.1			183098	10/15/21 05:11	UAMX	ELLE
Total/NA	Analysis	245.1		1	183497	10/15/21 16:53	UEFS	ELLE
Total/NA	Analysis	1664A		1	183502	10/15/21 17:52	QT6L	ELLE
Total/NA	Analysis	180.1		1	183047	10/14/21 19:45	DI9Q	ELLE
Total/NA	Analysis	2320B-2011		1	184075	10/16/21 03:38	DI9Q	ELLE
Total/NA	Analysis	2340C-2011		10	182919	10/14/21 11:44	USAE	ELLE
Total/NA	Analysis	2510B-2011		1	184076	10/16/21 03:38	DI9Q	ELLE
Total/NA	Analysis	2540C-2011		1	183902	10/18/21 08:56	M98K	ELLE
Total/NA	Analysis	2540F-2011		1	183041	10/14/21 19:05	DI9Q	ELLE
Total/NA	Prep	351.2			185118	10/20/21 14:16	UJE2	ELLE
Total/NA	Analysis	351.2		1	185657	10/21/21 12:43	JCG7	ELLE
Total/NA	Analysis	353.2		1	184278	10/19/21 07:03	USJM	ELLE
Total/NA	Prep	365.1			183382	10/15/21 13:51	F8AU	ELLE
Total/NA	Analysis	365.1		1	183936	10/18/21 10:10	MFV9	ELLE
Total/NA	Analysis	410.4		1	183241	10/15/21 08:34	USAE	ELLE
Total/NA	Analysis	420.4		1	185060	10/20/21 08:06	P684	ELLE
Total/NA	Analysis	4500 H+ B-2011		1	184077	10/16/21 03:38	DI9Q	ELLE
Total/NA	Analysis	5210 B-2011		1	185036	10/14/21 19:06	F8TI	ELLE
Total/NA	Analysis	SM 2330B		1	178712	10/14/21 05:01	USJM	ELLE
Total/NA	Analysis	SM 2540D		1	808124	10/20/21 07:57	AAP	TAL EDI

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Client Sample ID: QAQC_TB
Date Collected: 10/06/21 00:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59010-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	183303	10/15/21 15:04	UJML	ELLE
Total/NA	Analysis	8260C		1	183855	10/18/21 17:12	TQ4J	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59010-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-22

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
365.1	365.1	Groundwater	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
608.3	608.3	Groundwater	alpha-Chlordane (1C)
608.3	608.3	Groundwater	Chlordane (n.o.s.) (1C)
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl acetate
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile
624.1		Groundwater	Methyl iodide
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59010-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	n-Propyl acetate
624.1		Groundwater	N-Propylbenzene
624.1		Groundwater	p-Isopropyltoluene
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl acetate
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59010-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Methylnaphthalene
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Methylphenol
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
SM 2330B		Groundwater	Langelier Index

Laboratory: Eurofins TestAmerica, Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

Method Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59010-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
608.3	Organochlorine Pesticides in Water	40CFR136A	ELLE
608.3	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	MCAWW	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C-2011	Solids, Total Dissolved (TDS)	SM	ELLE
2540F-2011	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	MCAWW	ELLE
420.4	Phenolics, Total Recoverable	MCAWW	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2011	BOD, 5-Day	SM	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL EDI
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
608.3	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater ", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59010-1
Project/Site: EMGPRP-31097

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-59010-1	Outfall-01A	Groundwater	10/13/21 09:31	10/13/21 21:47
410-59010-2	Outfall-001	Groundwater	10/13/21 10:00	10/13/21 21:47
410-59010-3	QAQC_TB	Water	10/06/21 00:00	10/13/21 21:47

410-59010 Chain of Custody

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13438 Group # _____ Sample # _____

EMES-Eurofins Agreement # A2604415

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.		
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097
Consultant PM:	Courtney Lind	P.O. #: 0172.0030Y070	WAL# 4728
Sampler:	TG,NK	XOM PM:	Elaine Lamm
Bill to :	☐ XOM ☑ Consultant		
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐

Matrix: Soil ☐ Sediment ☐ Tissue ☐ | Water: Potable ☐ Ground ☐ NPDES ☑ Surface | Other: Trip Blank

Collection

Sample Identification	Date	Time	Grab	Composite	Matrix	Total # of Containers
OUTFALL-01A	10/13/2021	9:31	X		Water	28
OUTFALL-001	10/13/2021	10:00	X		Water	
QAQC_TB	10/6/2021				Other: Trip Blank	2

Analyses Requested

Preservation and Filtration Codes

	VOCs (624.1) MEK, Acetone, MTBE	200.8, 245.1	625.1_PREC - (MOD) Priority Pollutants SVOCs	608.3_PCB_PREC, 608.3_Pest_PREC	300_ORGFM_28D - (MOD) Chloride/Sulfate	SM5210B_Calc - BOD, 5-Day Only	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved	351.2, 365.1, 410.4	2320B, 2510B, 2540C_SingleDry,	420.4 - Phenols	353.2_Nitrite - Nitrogen, Nitrite	2540D_Single_Dry - TSS	SM2540F - Settleable Solids	Turbidity (180.1)	SM2330B - Local Method	2340C - Local Method	Oil&Grease (1664A)	RSK_175 Methane Ethane Ethene	8015C TPH-DRO/ORO Standard TPH-DRO/ORO	TPH-GRO (8015) #10598
Preservation Codes	H	N					S	S		S					N	H	H	H	H	
OUTFALL-01A	6	1	2	1	1	1	1	2	2	1	1	1	1	1	1	1	2	2		
OUTFALL-001	6	1	2	1	1	1	1	2	2	1	1	1	1	1	1	1	2	2		
QAQC_TB	2																			

H = HCl T = Thiosulfate N = HNO_3 B = NaOH S = H_2SO_4 P = H_3PO_4 F = Field Filtered O = Other

For Lab Use Only

SF #: _____

SCR #: _____

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☐ Rush ☑

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): (5 day) 4day 72hour 48hour 24hour

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ OTHER

Type III (Reduced non-CLP/NJ Reduced) ☐ Standard with QC summary

TX TRRP-13 ☐

NJ DKQP ☐

NYSDEC Category ☐ A ☐ B

EDD Format(s) Needed: EQuIS and Excel

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	10/13/2021	16:30	[signature]	10/13/21	1630
[signature]	10/13/21	21:15			
			[signature]	10/13/21	21:47

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1-2-2.0 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

AP

AP

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Moeller, Megan	Carrier Tracking No(s):	COC No: 410-1010944.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Megan.Moeller@eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 410-59010-1
Address: 777 New Durham Road, ,	Due Date Requested: 10/19/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: EMGPRP-31097	Project #: 41000909			
Site: EMGPRP	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D/ Solids, Total Suspended (TSS)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Outfall-01A (410-59010-1)	10/13/21	09:31 Eastern		Water			X	1	
Outfall-001 (410-59010-2)	10/13/21	10:00 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Lancaster Laboratories Env places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Lancaster Laboratories Env laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Lancaster Laboratories Env attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Lancaster Laboratories Env.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Frank J Ott	10-14-2021 1611	EMG	Brad Bry	10/15/21 10:00	Eur
Relinquished by: Brad Bry	Date/Time: 10/15/21 1653	Company Eur	Received by:	Date/Time: 10/15/21 1653	Company ESS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR9 3.5/3.0°C I.R.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-59010-1

Login Number: 59010

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Phillips, Ann-Marie E

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-59010-1

Login Number: 59010
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 10/19/21 11:10 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	3.0, 1.1°C IR9
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-59007-1
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Attn: Matthew Mueller

Authorized for release by:
11/2/2021 7:08:49 AM

Megan Moeller, Client Services Group Leader
(717)556-7261
Megan.Moeller@eurofinset.com

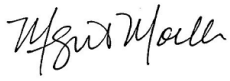
Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



Megan Moeller
Client Services Group Leader
11/2/2021 7:08:49 AM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC 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.

GC 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.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-59007-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-59007-1

Receipt
The samples were received on 10/13/2021 9:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.4°C and 1.9°C

Receipt Exceptions
The Langlier Index is applicable to fresh water samples with an ionic strength below 0.5. The following samples have ionic strengths greater than 0.5 so the Langlier Index will not calculate per the method:

RECEIVING-WATER-001 (410-59007-2) and RCS-FP-INLET (410-59025-9)

GC/MS VOA
Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: RCS INFLUENT (410-59007-1), RECEIVING-WATER-001 (410-59007-2) and QAQC_TB (410-59007-3). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

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

GC/MS Semi VOA
Method 625.1_PREC: Surrogate recovery for the following sample was outside control limits: RCS INFLUENT (410-59007-1). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 410-183988 recovered above the upper control limit for Di-n-octyl phthalate, n-Eicosane and n-Docosane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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

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

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

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

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

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

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

Job ID: 410-59007-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

General Chemistry

Method 410.4: The following sample was diluted due to the nature of the sample matrix: RECEIVING-WATER-001 (410-59007-2). Elevated reporting limits (RLs) are provided.

Method 420.4: The following sample was diluted due to the nature of the sample matrix: RECEIVING-WATER-001 (410-59007-2). 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.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Client Sample ID: RCS INFLUENT

Lab Sample ID: 410-59007-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.98	J	1.0	0.20	ug/L	1		624.1	Total/NA
1,1-Dichloroethene	0.76	J	1.0	0.20	ug/L	1		624.1	Total/NA
1,2,4-Trimethylbenzene	2.2		1.0	0.20	ug/L	1		624.1	Total/NA
1,2-Dichloroethane	2.0		1.0	0.30	ug/L	1		624.1	Total/NA
1,2-Dichloroethene (total)	72		1.0	0.20	ug/L	1		624.1	Total/NA
1,2-Dichloropropane	0.49	J	1.0	0.20	ug/L	1		624.1	Total/NA
1,3,5-Trimethylbenzene	1.1		1.0	0.20	ug/L	1		624.1	Total/NA
Benzene	80		1.0	0.20	ug/L	1		624.1	Total/NA
Bromodichloromethane	0.45	J	1.0	0.20	ug/L	1		624.1	Total/NA
Chlorobenzene	0.27	J	1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	71		1.0	0.20	ug/L	1		624.1	Total/NA
Cyclohexane	24		1.0	0.30	ug/L	1		624.1	Total/NA
Ethylbenzene	1.8		1.0	0.20	ug/L	1		624.1	Total/NA
Isopropylbenzene	3.6		2.0	0.50	ug/L	1		624.1	Total/NA
m&p-Xylene	7.6		1.0	0.30	ug/L	1		624.1	Total/NA
Naphthalene	2.1		1.0	0.20	ug/L	1		624.1	Total/NA
n-Butylbenzene	0.62	J	1.0	0.20	ug/L	1		624.1	Total/NA
n-Heptane	0.87	J	1.0	0.30	ug/L	1		624.1	Total/NA
n-Hexane	2.5		1.0	0.20	ug/L	1		624.1	Total/NA
N-Propylbenzene	3.6		1.0	0.20	ug/L	1		624.1	Total/NA
o-Xylene	1.4		1.0	0.20	ug/L	1		624.1	Total/NA
sec-Butylbenzene	0.87	J	1.0	0.20	ug/L	1		624.1	Total/NA
t-Butyl alcohol	53		20	6.0	ug/L	1		624.1	Total/NA
tert-Butylbenzene	0.32	J	1.0	0.20	ug/L	1		624.1	Total/NA
Toluene	1.9		1.0	0.20	ug/L	1		624.1	Total/NA
trans-1,2-Dichloroethene	0.59	J	1.0	0.20	ug/L	1		624.1	Total/NA
Trichloroethene	44		1.0	0.20	ug/L	1		624.1	Total/NA
Vinyl chloride	6.0		1.0	0.30	ug/L	1		624.1	Total/NA
Xylenes, Total	9.0		1.0	0.20	ug/L	1		624.1	Total/NA
Tetrachloroethene - DL	280		10	3.0	ug/L	10		624.1	Total/NA
Methyl tertiary butyl ether	4.9		1.0	0.20	ug/L	1		8260C	Total/NA
Acetone	3.1	J	20	0.70	ug/L	1		8260C	Total/NA
1-Methylnaphthalene	8.1		6.6	0.46	ug/L	1		625.1	Total/NA
2-Methylnaphthalene	5.3	J	6.6	0.26	ug/L	1		625.1	Total/NA
Acenaphthene	2.1	J	6.6	0.33	ug/L	1		625.1	Total/NA
Fluorene	0.98	J	6.6	0.26	ug/L	1		625.1	Total/NA
Naphthalene	1.7	J	2.6	0.40	ug/L	1		625.1	Total/NA
Phenanthrene	1.8	J	6.6	0.26	ug/L	1		625.1	Total/NA
GRO (1C)	740		50	23	ug/L	1		8015C	Total/NA
Ethane (1C)	2.1	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Ethene (1C)	1.5	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane (1C) - DL	1600		50	30	ug/L	10		RSK-175	Total/NA
4,4'-DDD (2C)	0.23		0.024	0.011	ug/L	1		608.3	Total/NA
DRO (C10-C28) (1C)	1.3		0.20	0.074	mg/L	1		8015C	Total/NA
Sulfate	230		50	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	1000		200	100	mg/L	500		EPA 300.0 R2.1	Total/NA
Arsenic	4.2		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	310		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	150000		500	370	ug/L	5		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: RCS INFLUENT (Continued)

Lab Sample ID: 410-59007-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.69	J	2.0	0.33	ug/L	1		200.8 Rev 5.4	Total Recoverable
Cobalt	1.4		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	4300		50	23	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	90000	^2	50	10	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2400		10	3.2	ug/L	5		200.8 Rev 5.4	Total Recoverable
Nickel	2.0		1.0	0.60	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	18000		200	110	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	540000		2000	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
Turbidity	46		2.0	2.0	NTU	2		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	360	F1	8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	800		100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	3800		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	3400		240	96	mg/L	1		2540C-2011	Total/NA
Total Kjeldahl Nitrogen	1.3		1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.38		0.10	0.040	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	50	J	75	25	mg/L	1		410.4	Total/NA
pH	7.5	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	23.6	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Langelier Index	-0.45				LangSU	1		SM 2330B	Total/NA
Total Suspended Solids	8.8		6.3	6.3	mg/L	1		SM 2540D	Total/NA

Client Sample ID: RECEIVING-WATER-001

Lab Sample ID: 410-59007-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (1C)	8.3		5.0	3.0	ug/L	1		RSK-175	Total/NA
DRO (C10-C28) (1C)	0.078	J	0.20	0.074	mg/L	1		8015C	Total/NA
Sulfate	1900		1000	300	mg/L	1000		EPA 300.0 R2.1	Total/NA
Chloride	13000		2000	1000	mg/L	5000		EPA 300.0 R2.1	Total/NA
Aluminum	80		25	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Arsenic	2.2		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	24		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	280000		10000	7400	ug/L	100		200.8 Rev 5.4	Total Recoverable
Cobalt	0.17	J	0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	2.0		1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	210		50	23	ug/L	1		200.8 Rev 5.4	Total Recoverable
Lead	1.0		0.50	0.071	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	790000		5000	1000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Manganese	87	B	2.0	0.63	ug/L	1		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: RECEIVING-WATER-001 (Continued)
Lab Sample ID: 410-59007-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	1.5		1.0	0.60	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	240000		20000	11000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Selenium	1.3		1.0	0.28	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	6700000	^2	20000	5000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Zinc	12		10	6.2	ug/L	1		200.8 Rev 5.4	Total Recoverable
Turbidity	1.6		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	4300	F1	500	150	mg/L	50		2340C-2011	Total/NA
Specific Conductance	29000		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	32000		2400	960	mg/L	1		2540C-2011	Total/NA
Total Kjeldahl Nitrogen	0.57	J	1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.47		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.45		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	510	J	750	250	mg/L	10		410.4	Total/NA
pH	7.4	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	23.7	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Total Suspended Solids	4.6		2.5	2.5	mg/L	1		SM 2540D	Total/NA

Client Sample ID: QAQC_TB
Lab Sample ID: 410-59007-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Client Sample ID: RCS INFLUENT
Date Collected: 10/13/21 09:15
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59007-1
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,1-Dichloroethane	**0.98**	**J**	1.0	0.20	ug/L			10/15/21 15:48	1
1,1-Dichloroethene	**0.76**	**J**	1.0	0.20	ug/L			10/15/21 15:48	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,2,4-Trimethylbenzene	**2.2**		1.0	0.20	ug/L			10/15/21 15:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/15/21 15:48	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/15/21 15:48	1
1,2-Dichloroethane	**2.0**		1.0	0.30	ug/L			10/15/21 15:48	1
1,2-Dichloroethene (total)	**72**		1.0	0.20	ug/L			10/15/21 15:48	1
1,2-Dichloropropane	**0.49**	**J**	1.0	0.20	ug/L			10/15/21 15:48	1
1,3,5-Trimethylbenzene	**1.1**		1.0	0.20	ug/L			10/15/21 15:48	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 15:48	1
1,4-Dioxane	ND		50	15	ug/L			10/15/21 15:48	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/15/21 15:48	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/15/21 15:48	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			10/15/21 15:48	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 15:48	1
2-Hexanone	ND		2.0	0.50	ug/L			10/15/21 15:48	1
2-Propanol	ND		20	8.0	ug/L			10/15/21 15:48	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 15:48	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/15/21 15:48	1
Acetonitrile	ND		50	14	ug/L			10/15/21 15:48	1
Benzene	**80**		1.0	0.20	ug/L			10/15/21 15:48	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/15/21 15:48	1
Bromobenzene	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Bromodichloromethane	**0.45**	**J**	1.0	0.20	ug/L			10/15/21 15:48	1
Bromoform	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Bromomethane	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Butyl acetate	ND		5.0	0.60	ug/L			10/15/21 15:48	1
Carbon disulfide	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Chlorobenzene	**0.27**	**J**	1.0	0.20	ug/L			10/15/21 15:48	1
Chloroethane	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Chloroform	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Chloromethane	ND		1.0	0.30	ug/L			10/15/21 15:48	1
cis-1,2-Dichloroethene	**71**		1.0	0.20	ug/L			10/15/21 15:48	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Cyclohexane	**24**		1.0	0.30	ug/L			10/15/21 15:48	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Dibromomethane	ND		1.0	0.20	ug/L			10/15/21 15:48	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Client Sample ID: RCS INFLUENT
Date Collected: 10/13/21 09:15
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59007-1
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			10/15/21 15:48	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			10/15/21 15:48	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/15/21 15:48	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Ethylbenzene	**1.8**		1.0	0.20	ug/L			10/15/21 15:48	1
Freon 113	ND		1.0	0.30	ug/L			10/15/21 15:48	1
Freon 123a	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Isobutyl alcohol	ND		50	11	ug/L			10/15/21 15:48	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/15/21 15:48	1
Isopropylbenzene	**3.6**		2.0	0.50	ug/L			10/15/21 15:48	1
m&p-Xylene	**7.6**		1.0	0.30	ug/L			10/15/21 15:48	1
Methacrylonitrile	ND		10	2.0	ug/L			10/15/21 15:48	1
Methyl iodide	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/15/21 15:48	1
Naphthalene	**2.1**		1.0	0.20	ug/L			10/15/21 15:48	1
n-Butylbenzene	**0.62**	**J**	1.0	0.20	ug/L			10/15/21 15:48	1
n-Heptane	**0.87**	**J**	1.0	0.30	ug/L			10/15/21 15:48	1
n-Hexane	**2.5**		1.0	0.20	ug/L			10/15/21 15:48	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/15/21 15:48	1
N-Propylbenzene	**3.6**		1.0	0.20	ug/L			10/15/21 15:48	1
o-Xylene	**1.4**		1.0	0.20	ug/L			10/15/21 15:48	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/15/21 15:48	1
Propionitrile	ND		20	4.0	ug/L			10/15/21 15:48	1
sec-Butylbenzene	**0.87**	**J**	1.0	0.20	ug/L			10/15/21 15:48	1
Styrene	ND		1.0	0.20	ug/L			10/15/21 15:48	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/15/21 15:48	1
t-Butyl alcohol	**53**		20	6.0	ug/L			10/15/21 15:48	1
tert-Butylbenzene	**0.32**	**J**	1.0	0.20	ug/L			10/15/21 15:48	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/15/21 15:48	1
Toluene	**1.9**		1.0	0.20	ug/L			10/15/21 15:48	1
trans-1,2-Dichloroethene	**0.59**	**J**	1.0	0.20	ug/L			10/15/21 15:48	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/15/21 15:48	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/15/21 15:48	1
Trichloroethene	**44**		1.0	0.20	ug/L			10/15/21 15:48	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/15/21 15:48	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/15/21 15:48	1
Vinyl chloride	**6.0**		1.0	0.30	ug/L			10/15/21 15:48	1
Xylenes, Total	**9.0**		1.0	0.20	ug/L			10/15/21 15:48	1
Acrolein	ND		10	3.0	ug/L			10/15/21 15:48	1
Acrylonitrile	ND		1.0	0.30	ug/L			10/15/21 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*10/15/21 15:48*	*1*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*10/15/21 15:48*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*10/15/21 15:48*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*10/15/21 15:48*	*1*

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Lab Sample ID: 410-59007-1
Matrix: Groundwater

Method: 624.1 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**280**		10	3.0	ug/L			10/16/21 14:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*		*10/16/21 14:26*	*10*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*10/16/21 14:26*	*10*
Dibromofluoromethane (Surr)	*110*		*60 - 140*		*10/16/21 14:26*	*10*
Toluene-d8 (Surr)	*97*		*60 - 140*		*10/16/21 14:26*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**4.9**		1.0	0.20	ug/L			10/15/21 13:05	1
Acetone	**3.1**	**J**	20	0.70	ug/L			10/15/21 13:05	1
2-Butanone	ND		10	0.50	ug/L			10/15/21 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*10/15/21 13:05*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*10/15/21 13:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/15/21 13:05*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/15/21 13:05*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
1,2,4,5-Tetrachlorobenzene	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
1,2,4-Trichlorobenzene	ND		1.3	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
1,2-Dichlorobenzene	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
1,2-Diphenylhydrazine	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
1,3-Dichlorobenzene	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
1,4-Dichlorobenzene	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
1,4-Dioxane	ND		6.6	2.6	ug/L		10/14/21 17:30	10/18/21 17:30	1
1-Methylnaphthalene	**8.1**		6.6	0.46	ug/L		10/14/21 17:30	10/18/21 17:30	1
1-Methylphenanthrene	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2,2'-oxybis[1-chloropropane]	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2,3,4,6-Tetrachlorophenol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2,3-Dichloroaniline	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2,4,5-Trichlorophenol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2,4,6-Trichlorophenol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2,4-Dichlorophenol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2,4-Dimethylphenol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2,4-Dinitrophenol	ND		13	2.6	ug/L		10/14/21 17:30	10/18/21 17:30	1
2,4-Dinitrotoluene	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2,6-Dichlorophenol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2,6-Dinitrotoluene	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2-Chloronaphthalene	ND		6.6	1.3	ug/L		10/14/21 17:30	10/18/21 17:30	1
2-Chlorophenol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2-Methylnaphthalene	**5.3**	**J**	6.6	0.26	ug/L		10/14/21 17:30	10/18/21 17:30	1
2-Methylphenol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2-Nitroaniline	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
2-Nitrophenol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
3,3'-Dichlorobenzidine	ND		6.6	1.1	ug/L		10/14/21 17:30	10/18/21 17:30	1

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Date Collected: 10/13/21 09:15
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Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
4,6-Dinitro-2-methylphenol	ND		13	2.6	ug/L		10/14/21 17:30	10/18/21 17:30	1
4-Bromophenyl-phenylether	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
4-Chloro-3-methylphenol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
4-Chloroaniline	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
4-Chlorophenyl-phenylether	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
4-Methylphenol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
4-Nitroaniline	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
4-Nitrophenol	ND		6.6	1.2	ug/L		10/14/21 17:30	10/18/21 17:30	1
Acenaphthene	**2.1**	**J**	6.6	0.33	ug/L		10/14/21 17:30	10/18/21 17:30	1
Acenaphthylene	ND		6.6	0.26	ug/L		10/14/21 17:30	10/18/21 17:30	1
Acetophenone	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Aniline	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Anthracene	ND		6.6	0.33	ug/L		10/14/21 17:30	10/18/21 17:30	1
a-Terpineol	ND		6.6	0.79	ug/L		10/14/21 17:30	10/18/21 17:30	1
Benzidine	ND	*+	79	7.9	ug/L		10/14/21 17:30	10/18/21 17:30	1
Benzo[a]anthracene	ND		6.6	0.33	ug/L		10/14/21 17:30	10/18/21 17:30	1
Benzo[a]pyrene	ND		6.6	0.33	ug/L		10/14/21 17:30	10/18/21 17:30	1
Benzo[b]fluoranthene	ND		6.6	0.33	ug/L		10/14/21 17:30	10/18/21 17:30	1
Benzo[g,h,i]perylene	ND		6.6	0.40	ug/L		10/14/21 17:30	10/18/21 17:30	1
Benzo[k]fluoranthene	ND		6.6	0.26	ug/L		10/14/21 17:30	10/18/21 17:30	1
Benzoic acid	ND		40	5.3	ug/L		10/14/21 17:30	10/18/21 17:30	1
Benzyl alcohol	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Bis(2-chloroethoxy)methane	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Bis(2-chloroethyl)ether	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Bis(2-ethylhexyl) phthalate	ND		6.6	1.3	ug/L		10/14/21 17:30	10/18/21 17:30	1
Butylbenzylphthalate	ND	*1	6.6	1.3	ug/L		10/14/21 17:30	10/18/21 17:30	1
Carbazole	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Chrysene	ND		6.6	0.26	ug/L		10/14/21 17:30	10/18/21 17:30	1
Dibenz(a,h)anthracene	ND		6.6	0.40	ug/L		10/14/21 17:30	10/18/21 17:30	1
Dibenzofuran	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Diethylphthalate	ND	*1	6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Dimethylphthalate	ND	*1	6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Di-n-butyl phthalate	ND	*1	6.6	1.3	ug/L		10/14/21 17:30	10/18/21 17:30	1
Di-n-octyl phthalate	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Diphenyl ether	ND		6.6	0.99	ug/L		10/14/21 17:30	10/18/21 17:30	1
Fluoranthene	ND		6.6	0.26	ug/L		10/14/21 17:30	10/18/21 17:30	1
Fluorene	**0.98**	**J**	6.6	0.26	ug/L		10/14/21 17:30	10/18/21 17:30	1
Hexachlorobenzene	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Hexachlorobutadiene	ND		2.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Hexachlorocyclopentadiene	ND		20	4.0	ug/L		10/14/21 17:30	10/18/21 17:30	1
Hexachloroethane	ND		2.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Indeno[1,2,3-cd]pyrene	ND		6.6	0.40	ug/L		10/14/21 17:30	10/18/21 17:30	1
Isophorone	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Naphthalene	**1.7**	**J**	2.6	0.40	ug/L		10/14/21 17:30	10/18/21 17:30	1
n-Decane	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
n-Docosane	ND	*+	6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
n-Eicosane	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
n-Hexadecane	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1

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Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
N-Nitrosodiethylamine	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
N-Nitrosodimethylamine	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
N-Nitrosodi-n-butylamine	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
N-Nitrosodi-n-propylamine	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
N-Nitrosodiphenylamine	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
N-Nitrosopyrrolidine	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
n-Octadecane	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
n-Tetradecane	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
o-Toluidine	ND		6.6	1.3	ug/L		10/14/21 17:30	10/18/21 17:30	1
Pentachlorobenzene	ND		6.6	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Pentachlorophenol	ND		6.6	1.1	ug/L		10/14/21 17:30	10/18/21 17:30	1
Phenanthrene	**1.8**	**J**	6.6	0.26	ug/L		10/14/21 17:30	10/18/21 17:30	1
Phenol	ND		1.3	0.66	ug/L		10/14/21 17:30	10/18/21 17:30	1
Pyrene	ND		6.6	0.33	ug/L		10/14/21 17:30	10/18/21 17:30	1
Pyridine	ND		6.6	1.1	ug/L		10/14/21 17:30	10/18/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*9*	*S1-*	*23 - 140*	*10/14/21 17:30*	*10/18/21 17:30*	*1*
2-Fluorobiphenyl (Surr)	*71*		*36 - 101*	*10/14/21 17:30*	*10/18/21 17:30*	*1*
2-Fluorophenol (Surr)	*3*	*S1-*	*10 - 77*	*10/14/21 17:30*	*10/18/21 17:30*	*1*
Nitrobenzene-d5 (Surr)	*70*		*49 - 106*	*10/14/21 17:30*	*10/18/21 17:30*	*1*
Phenol-d5 (Surr)	*16*		*10 - 59*	*10/14/21 17:30*	*10/18/21 17:30*	*1*
p-Terphenyl-d14 (Surr)	*107*		*26 - 119*	*10/14/21 17:30*	*10/18/21 17:30*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	**740**		50	23	ug/L			10/15/21 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*101*		*63 - 135*		*10/15/21 18:21*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	**2.1**	**J**	5.0	1.0	ug/L		10/14/21 09:13	10/14/21 15:54	1
Ethene (1C)	**1.5**	**J**	5.0	1.0	ug/L		10/14/21 09:13	10/14/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*75*		*28 - 130*	*10/14/21 09:13*	*10/14/21 15:54*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (1C)	**1600**		50	30	ug/L		10/15/21 09:02	10/15/21 10:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*95*		*28 - 130*	*10/15/21 09:02*	*10/15/21 10:59*	*10*

Method: 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	ND		0.012	0.0061	ug/L		10/20/21 09:46	10/22/21 10:55	1
alpha-BHC (1C)	ND		0.037	0.015	ug/L		10/20/21 09:46	10/22/21 10:55	1

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Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC (1C)	ND		0.12	0.056	ug/L		10/20/21 09:46	10/22/21 10:55	1
alpha-Chlordane (1C)	ND		0.012	0.0073	ug/L		10/20/21 09:46	10/22/21 10:55	1
delta-BHC (1C)	ND		0.037	0.013	ug/L		10/20/21 09:46	10/22/21 10:55	1
Dieldrin (2C)	ND		0.024	0.0098	ug/L		10/20/21 09:46	10/22/21 10:55	1
Endosulfan I (1C)	ND		0.012	0.0037	ug/L		10/20/21 09:46	10/22/21 10:55	1
Endosulfan II (1C)	ND		0.024	0.012	ug/L		10/20/21 09:46	10/22/21 10:55	1
Endosulfan sulfate (1C)	ND		0.024	0.012	ug/L		10/20/21 09:46	10/22/21 10:55	1
Endrin (1C)	ND		0.12	0.011	ug/L		10/20/21 09:46	10/22/21 10:55	1
Endrin aldehyde (1C)	ND		0.024	0.011	ug/L		10/20/21 09:46	10/22/21 10:55	1
gamma-BHC (Lindane) (1C)	ND		0.012	0.0064	ug/L		10/20/21 09:46	10/22/21 10:55	1
Heptachlor (1C)	ND		0.012	0.0098	ug/L		10/20/21 09:46	10/22/21 10:55	1
Heptachlor epoxide (1C)	ND		0.12	0.0061	ug/L		10/20/21 09:46	10/22/21 10:55	1
4,4'-DDD (2C)	**0.23**		0.024	0.011	ug/L		10/20/21 09:46	10/22/21 10:55	1
4,4'-DDE (1C)	ND		0.049	0.024	ug/L		10/20/21 09:46	10/22/21 10:55	1
4,4'-DDT (1C)	ND		0.024	0.012	ug/L		10/20/21 09:46	10/22/21 10:55	1
Toxaphene (1C)	ND		1.2	0.43	ug/L		10/20/21 09:46	10/22/21 10:55	1
Chlordane (n.o.s.) (1C)	ND		0.61	0.28	ug/L		10/20/21 09:46	10/22/21 10:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*73*		*32 - 149*	*10/20/21 09:46*	*10/22/21 10:55*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*73*		*32 - 149*	*10/20/21 09:46*	*10/22/21 10:55*	*1*
Tetrachloro-m-xylene (1C)	*57*		*29 - 129*	*10/20/21 09:46*	*10/22/21 10:55*	*1*
Tetrachloro-m-xylene (2C)	*46*		*29 - 129*	*10/20/21 09:46*	*10/22/21 10:55*	*1*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.61	0.12	ug/L		10/20/21 09:26	10/20/21 21:16	1
PCB-1221 (1C)	ND		0.61	0.26	ug/L		10/20/21 09:26	10/20/21 21:16	1
PCB-1232 (1C)	ND		0.61	0.16	ug/L		10/20/21 09:26	10/20/21 21:16	1
PCB-1242 (1C)	ND		0.61	0.24	ug/L		10/20/21 09:26	10/20/21 21:16	1
PCB-1248 (1C)	ND		0.61	0.26	ug/L		10/20/21 09:26	10/20/21 21:16	1
PCB-1254 (1C)	ND		0.61	0.20	ug/L		10/20/21 09:26	10/20/21 21:16	1
PCB-1260 (1C)	ND		0.61	0.097	ug/L		10/20/21 09:26	10/20/21 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*77*		*10 - 127*	*10/20/21 09:26*	*10/20/21 21:16*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*74*		*10 - 127*	*10/20/21 09:26*	*10/20/21 21:16*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*69*		*18 - 115*	*10/20/21 09:26*	*10/20/21 21:16*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*71*		*18 - 115*	*10/20/21 09:26*	*10/20/21 21:16*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	**1.3**		0.20	0.074	mg/L		10/19/21 19:01	10/20/21 02:02	1
>C28-C35 (1C)	ND		0.20	0.074	mg/L		10/19/21 19:01	10/20/21 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*91*		*27 - 143*	*10/19/21 19:01*	*10/20/21 02:02*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**230**		50	15	mg/L			10/28/21 15:54	50

Client Sample ID: RCS INFLUENT
Date Collected: 10/13/21 09:15
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Lab Sample ID: 410-59007-1
Matrix: Groundwater

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		200	100	mg/L			11/01/21 16:35	500

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		10/16/21 05:42	10/17/21 05:50	1
Aluminum	ND		25	20	ug/L		10/16/21 05:42	10/17/21 05:50	1
Arsenic	4.2		2.0	0.68	ug/L		10/16/21 05:42	10/17/21 05:50	1
Barium	310		2.0	0.75	ug/L		10/16/21 05:42	10/17/21 05:50	1
Beryllium	ND		0.50	0.12	ug/L		10/16/21 05:42	10/17/21 05:50	1
Cadmium	ND		0.50	0.15	ug/L		10/16/21 05:42	10/17/21 05:50	1
Calcium	150000		500	370	ug/L		10/16/21 05:42	10/17/21 06:54	5
Chromium	0.69	J	2.0	0.33	ug/L		10/16/21 05:42	10/17/21 05:50	1
Cobalt	1.4		0.50	0.16	ug/L		10/16/21 05:42	10/17/21 05:50	1
Copper	ND		1.0	0.36	ug/L		10/16/21 05:42	10/17/21 05:50	1
Iron	4300		50	23	ug/L		10/16/21 05:42	10/17/21 05:50	1
Lead	ND		0.50	0.071	ug/L		10/16/21 05:42	10/17/21 05:50	1
Magnesium	90000	^2	50	10	ug/L		10/16/21 05:42	10/17/21 05:50	1
Manganese	2400		10	3.2	ug/L		10/16/21 05:42	10/17/21 06:54	5
Nickel	2.0		1.0	0.60	ug/L		10/16/21 05:42	10/19/21 18:40	1
Potassium	18000		200	110	ug/L		10/16/21 05:42	10/17/21 05:50	1
Selenium	ND		1.0	0.28	ug/L		10/16/21 05:42	10/17/21 05:50	1
Silver	ND		0.50	0.17	ug/L		10/16/21 05:42	10/17/21 05:50	1
Sodium	540000		2000	500	ug/L		10/16/21 05:42	10/17/21 06:56	10
Thallium	ND		0.50	0.13	ug/L		10/16/21 05:42	10/17/21 05:50	1
Vanadium	ND		4.0	0.79	ug/L		10/16/21 05:42	10/17/21 05:50	1
Zinc	ND		10	6.2	ug/L		10/16/21 05:42	10/17/21 05:50	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/19/21 05:24	10/19/21 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.6	1.6	mg/L			10/14/21 20:42	1
Turbidity	46		2.0	2.0	NTU			10/14/21 19:45	2
Total Alkalinity as CaCO3 to pH 4.5	360	F1	8.0	2.6	mg/L			10/16/21 00:09	1
Total Hardness	800		100	30	mg/L			10/14/21 11:02	10
Specific Conductance	3800		5.0	1.7	umhos/cm			10/16/21 00:09	1
Total Dissolved Solids	3400		240	96	mg/L			10/18/21 08:56	1
Settleable Solids	ND		0.10	0.10	mL/L			10/14/21 19:05	1
Total Kjeldahl Nitrogen	1.3		1.0	0.50	mg/L		10/15/21 05:40	10/15/21 12:08	1
Nitrate as N	0.38		0.10	0.040	mg/L			10/19/21 07:03	1
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		10/15/21 13:51	10/18/21 10:10	1
Chemical Oxygen Demand	50	J	75	25	mg/L			10/15/21 08:31	1
Phenols, Total	ND		0.020	0.010	mg/L			10/14/21 12:25	1
pH	7.5	HF	0.01	0.01	S.U.			10/16/21 00:09	1
Temperature	23.6	HF	0.01	0.01	Degrees C			10/16/21 00:09	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			10/14/21 18:25	1
Langelier Index	-0.45				LangSU			10/14/21 05:01	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Client Sample ID: RCS INFLUENT
Date Collected: 10/13/21 09:15
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59007-1
Matrix: Groundwater

General Chemistry
Lab: Eurofins TestAmerica, Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	8.8		6.3	6.3	mg/L			10/20/21 07:57	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Client Sample ID: RECEIVING-WATER-001
Date Collected: 10/13/21 10:20
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59007-2
Matrix: Surface Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/15/21 16:10	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/15/21 16:10	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/15/21 16:10	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
1,4-Dioxane	ND		50	15	ug/L			10/15/21 16:10	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/15/21 16:10	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/15/21 16:10	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			10/15/21 16:10	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 16:10	1
2-Hexanone	ND		2.0	0.50	ug/L			10/15/21 16:10	1
2-Propanol	ND		20	8.0	ug/L			10/15/21 16:10	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 16:10	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/15/21 16:10	1
Acetonitrile	ND		50	14	ug/L			10/15/21 16:10	1
Benzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/15/21 16:10	1
Bromobenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Bromoform	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Bromomethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Butyl acetate	ND		5.0	0.60	ug/L			10/15/21 16:10	1
Carbon disulfide	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Chloroethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Chloroform	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Chloromethane	ND		1.0	0.30	ug/L			10/15/21 16:10	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Cyclohexane	ND		1.0	0.30	ug/L			10/15/21 16:10	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Dibromomethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1

Client Sample ID: RECEIVING-WATER-001
Date Collected: 10/13/21 10:20
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59007-2
Matrix: Surface Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			10/15/21 16:10	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/15/21 16:10	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Freon 113	ND		1.0	0.30	ug/L			10/15/21 16:10	1
Freon 123a	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Isobutyl alcohol	ND		50	11	ug/L			10/15/21 16:10	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/15/21 16:10	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/15/21 16:10	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/15/21 16:10	1
Methacrylonitrile	ND		10	2.0	ug/L			10/15/21 16:10	1
Methyl iodide	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/15/21 16:10	1
Naphthalene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
n-Heptane	ND		1.0	0.30	ug/L			10/15/21 16:10	1
n-Hexane	ND		1.0	0.20	ug/L			10/15/21 16:10	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/15/21 16:10	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
o-Xylene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Propionitrile	ND		20	4.0	ug/L			10/15/21 16:10	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Styrene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/15/21 16:10	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/15/21 16:10	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/15/21 16:10	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/15/21 16:10	1
Toluene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/15/21 16:10	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/15/21 16:10	1
Trichloroethene	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/15/21 16:10	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/15/21 16:10	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/15/21 16:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/15/21 16:10	1
Acrolein	ND		10	3.0	ug/L			10/15/21 16:10	1
Acrylonitrile	ND		1.0	0.30	ug/L			10/15/21 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*		*10/15/21 16:10*	*1*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*10/15/21 16:10*	*1*
Dibromofluoromethane (Surr)	*114*		*60 - 140*		*10/15/21 16:10*	*1*

Client Sample ID: RECEIVING-WATER-001
Date Collected: 10/13/21 10:20
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59007-2
Matrix: Surface Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*60 - 140*		*10/15/21 16:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/15/21 14:04	1
Acetone	ND		20	0.70	ug/L			10/15/21 14:04	1
2-Butanone	ND		10	0.50	ug/L			10/15/21 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*10/15/21 14:04*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*10/15/21 14:04*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/15/21 14:04*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/15/21 14:04*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
1,2,4,5-Tetrachlorobenzene	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
1,2,4-Trichlorobenzene	ND		1.1	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
1,2-Dichlorobenzene	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
1,2-Diphenylhydrazine	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
1,3-Dichlorobenzene	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
1,4-Dichlorobenzene	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
1,4-Dioxane	ND		5.3	2.1	ug/L		10/14/21 17:30	10/18/21 17:49	1
1-Methylnaphthalene	ND		5.3	0.37	ug/L		10/14/21 17:30	10/18/21 17:49	1
1-Methylphenanthrene	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2,2'-oxybis[1-chloropropane]	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2,3,4,6-Tetrachlorophenol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2,3-Dichloroaniline	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2,4,5-Trichlorophenol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2,4,6-Trichlorophenol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2,4-Dichlorophenol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2,4-Dimethylphenol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2,4-Dinitrophenol	ND		11	2.1	ug/L		10/14/21 17:30	10/18/21 17:49	1
2,4-Dinitrotoluene	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2,6-Dichlorophenol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2,6-Dinitrotoluene	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2-Chloronaphthalene	ND		5.3	1.1	ug/L		10/14/21 17:30	10/18/21 17:49	1
2-Chlorophenol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2-Methylnaphthalene	ND		5.3	0.21	ug/L		10/14/21 17:30	10/18/21 17:49	1
2-Methylphenol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2-Nitroaniline	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
2-Nitrophenol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
3,3'-Dichlorobenzidine	ND		5.3	0.85	ug/L		10/14/21 17:30	10/18/21 17:49	1
3-Nitroaniline	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
4,6-Dinitro-2-methylphenol	ND		11	2.1	ug/L		10/14/21 17:30	10/18/21 17:49	1
4-Bromophenyl-phenylether	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
4-Chloro-3-methylphenol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
4-Chloroaniline	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
4-Chlorophenyl-phenylether	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Client Sample ID: RECEIVING-WATER-001
Date Collected: 10/13/21 10:20
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59007-2
Matrix: Surface Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
4-Nitroaniline	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
4-Nitrophenol	ND		5.3	0.95	ug/L		10/14/21 17:30	10/18/21 17:49	1
Acenaphthene	ND		5.3	0.26	ug/L		10/14/21 17:30	10/18/21 17:49	1
Acenaphthylene	ND		5.3	0.21	ug/L		10/14/21 17:30	10/18/21 17:49	1
Acetophenone	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Aniline	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Anthracene	ND		5.3	0.26	ug/L		10/14/21 17:30	10/18/21 17:49	1
a-Terpineol	ND		5.3	0.63	ug/L		10/14/21 17:30	10/18/21 17:49	1
Benzidine	ND	*+	63	6.3	ug/L		10/14/21 17:30	10/18/21 17:49	1
Benzo[a]anthracene	ND		5.3	0.26	ug/L		10/14/21 17:30	10/18/21 17:49	1
Benzo[a]pyrene	ND		5.3	0.26	ug/L		10/14/21 17:30	10/18/21 17:49	1
Benzo[b]fluoranthene	ND		5.3	0.26	ug/L		10/14/21 17:30	10/18/21 17:49	1
Benzo[g,h,i]perylene	ND		5.3	0.32	ug/L		10/14/21 17:30	10/18/21 17:49	1
Benzo[k]fluoranthene	ND		5.3	0.21	ug/L		10/14/21 17:30	10/18/21 17:49	1
Benzoic acid	ND		32	4.2	ug/L		10/14/21 17:30	10/18/21 17:49	1
Benzyl alcohol	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Bis(2-chloroethoxy)methane	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Bis(2-chloroethyl)ether	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Bis(2-ethylhexyl) phthalate	ND		5.3	1.1	ug/L		10/14/21 17:30	10/18/21 17:49	1
Butylbenzylphthalate	ND	*1	5.3	1.1	ug/L		10/14/21 17:30	10/18/21 17:49	1
Carbazole	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Chrysene	ND		5.3	0.21	ug/L		10/14/21 17:30	10/18/21 17:49	1
Dibenz(a,h)anthracene	ND		5.3	0.32	ug/L		10/14/21 17:30	10/18/21 17:49	1
Dibenzofuran	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Diethylphthalate	ND	*1	5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Dimethylphthalate	ND	*1	5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Di-n-butyl phthalate	ND	*1	5.3	1.1	ug/L		10/14/21 17:30	10/18/21 17:49	1
Di-n-octyl phthalate	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Diphenyl ether	ND		5.3	0.79	ug/L		10/14/21 17:30	10/18/21 17:49	1
Fluoranthene	ND		5.3	0.21	ug/L		10/14/21 17:30	10/18/21 17:49	1
Fluorene	ND		5.3	0.21	ug/L		10/14/21 17:30	10/18/21 17:49	1
Hexachlorobenzene	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Hexachlorobutadiene	ND		2.1	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Hexachlorocyclopentadiene	ND		16	3.2	ug/L		10/14/21 17:30	10/18/21 17:49	1
Hexachloroethane	ND		2.1	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Indeno[1,2,3-cd]pyrene	ND		5.3	0.32	ug/L		10/14/21 17:30	10/18/21 17:49	1
Isophorone	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Naphthalene	ND		2.1	0.32	ug/L		10/14/21 17:30	10/18/21 17:49	1
n-Decane	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
n-Docosane	ND	*+	5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
n-Eicosane	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
n-Hexadecane	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Nitrobenzene	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
N-Nitrosodiethylamine	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
N-Nitrosodimethylamine	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
N-Nitrosodi-n-butylamine	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
N-Nitrosodi-n-propylamine	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
N-Nitrosodiphenylamine	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1

Client Sample ID: RECEIVING-WATER-001
Lab Sample ID: 410-59007-2
Date Collected: 10/13/21 10:20
Matrix: Surface Water
Date Received: 10/13/21 21:47

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
n-Octadecane	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
n-Tetradecane	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
o-Toluidine	ND		5.3	1.1	ug/L		10/14/21 17:30	10/18/21 17:49	1
Pentachlorobenzene	ND		5.3	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Pentachlorophenol	ND		5.3	0.85	ug/L		10/14/21 17:30	10/18/21 17:49	1
Phenanthrene	ND		5.3	0.21	ug/L		10/14/21 17:30	10/18/21 17:49	1
Phenol	ND		1.1	0.53	ug/L		10/14/21 17:30	10/18/21 17:49	1
Pyrene	ND		5.3	0.26	ug/L		10/14/21 17:30	10/18/21 17:49	1
Pyridine	ND		5.3	0.85	ug/L		10/14/21 17:30	10/18/21 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*81*		*23 - 140*	*10/14/21 17:30*	*10/18/21 17:49*	*1*
2-Fluorobiphenyl (Surr)	*70*		*36 - 101*	*10/14/21 17:30*	*10/18/21 17:49*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 77*	*10/14/21 17:30*	*10/18/21 17:49*	*1*
Nitrobenzene-d5 (Surr)	*76*		*49 - 106*	*10/14/21 17:30*	*10/18/21 17:49*	*1*
Phenol-d5 (Surr)	*43*		*10 - 59*	*10/14/21 17:30*	*10/18/21 17:49*	*1*
p-Terphenyl-d14 (Surr)	*105*		*26 - 119*	*10/14/21 17:30*	*10/18/21 17:49*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	ND		50	23	ug/L			10/15/21 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*94*		*63 - 135*		*10/15/21 18:45*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/14/21 09:13	10/14/21 16:13	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/14/21 09:13	10/14/21 16:13	1
Methane (1C)	**8.3**		5.0	3.0	ug/L		10/14/21 09:13	10/14/21 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*61*		*28 - 130*	*10/14/21 09:13*	*10/14/21 16:13*	*1*

Method: 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	ND		0.016	0.0078	ug/L		10/20/21 09:46	10/22/21 11:08	1
alpha-BHC (1C)	ND		0.047	0.019	ug/L		10/20/21 09:46	10/22/21 11:08	1
beta-BHC (1C)	ND		0.16	0.072	ug/L		10/20/21 09:46	10/22/21 11:08	1
alpha-Chlordane (1C)	ND		0.016	0.0094	ug/L		10/20/21 09:46	10/22/21 11:08	1
delta-BHC (1C)	ND		0.047	0.017	ug/L		10/20/21 09:46	10/22/21 11:08	1
Dieldrin (1C)	ND		0.031	0.013	ug/L		10/20/21 09:46	10/22/21 11:08	1
Endosulfan I (1C)	ND		0.016	0.0047	ug/L		10/20/21 09:46	10/22/21 11:08	1
Endosulfan II (1C)	ND		0.031	0.015	ug/L		10/20/21 09:46	10/22/21 11:08	1
Endosulfan sulfate (1C)	ND		0.031	0.016	ug/L		10/20/21 09:46	10/22/21 11:08	1
Endrin (1C)	ND		0.16	0.014	ug/L		10/20/21 09:46	10/22/21 11:08	1
Endrin aldehyde (1C)	ND		0.031	0.014	ug/L		10/20/21 09:46	10/22/21 11:08	1
gamma-BHC (Lindane) (1C)	ND		0.016	0.0082	ug/L		10/20/21 09:46	10/22/21 11:08	1
Heptachlor (1C)	ND		0.016	0.013	ug/L		10/20/21 09:46	10/22/21 11:08	1
Heptachlor epoxide (2C)	ND		0.16	0.0078	ug/L		10/20/21 09:46	10/22/21 11:08	1

Client Sample ID: RECEIVING-WATER-001
Lab Sample ID: 410-59007-2
Date Collected: 10/13/21 10:20
Matrix: Surface Water
Date Received: 10/13/21 21:47

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD (1C)	ND		0.031	0.014	ug/L		10/20/21 09:46	10/22/21 11:08	1
4,4'-DDE (1C)	ND		0.063	0.031	ug/L		10/20/21 09:46	10/22/21 11:08	1
4,4'-DDT (1C)	ND		0.031	0.016	ug/L		10/20/21 09:46	10/22/21 11:08	1
Toxaphene (1C)	ND		1.6	0.56	ug/L		10/20/21 09:46	10/22/21 11:08	1
Chlordane (n.o.s.) (1C)	ND		0.78	0.36	ug/L		10/20/21 09:46	10/22/21 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*80*		*32 - 149*	*10/20/21 09:46*	*10/22/21 11:08*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*82*		*32 - 149*	*10/20/21 09:46*	*10/22/21 11:08*	*1*
Tetrachloro-m-xylene (1C)	*68*		*29 - 129*	*10/20/21 09:46*	*10/22/21 11:08*	*1*
Tetrachloro-m-xylene (2C)	*62*		*29 - 129*	*10/20/21 09:46*	*10/22/21 11:08*	*1*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.78	0.15	ug/L		10/20/21 09:26	10/20/21 21:28	1
PCB-1221 (1C)	ND		0.78	0.33	ug/L		10/20/21 09:26	10/20/21 21:28	1
PCB-1232 (1C)	ND		0.78	0.20	ug/L		10/20/21 09:26	10/20/21 21:28	1
PCB-1242 (1C)	ND		0.78	0.31	ug/L		10/20/21 09:26	10/20/21 21:28	1
PCB-1248 (1C)	ND		0.78	0.33	ug/L		10/20/21 09:26	10/20/21 21:28	1
PCB-1254 (1C)	ND		0.78	0.25	ug/L		10/20/21 09:26	10/20/21 21:28	1
PCB-1260 (1C)	ND		0.78	0.12	ug/L		10/20/21 09:26	10/20/21 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*84*		*10 - 127*	*10/20/21 09:26*	*10/20/21 21:28*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*81*		*10 - 127*	*10/20/21 09:26*	*10/20/21 21:28*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*75*		*18 - 115*	*10/20/21 09:26*	*10/20/21 21:28*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*84*		*18 - 115*	*10/20/21 09:26*	*10/20/21 21:28*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	**0.078**	**J**	0.20	0.074	mg/L		10/19/21 19:01	10/20/21 02:24	1
>C28-C35 (1C)	ND		0.20	0.074	mg/L		10/19/21 19:01	10/20/21 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*72*		*27 - 143*	*10/19/21 19:01*	*10/20/21 02:24*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1900**		1000	300	mg/L			10/28/21 15:34	1000
Chloride	**13000**		2000	1000	mg/L			10/29/21 12:34	5000

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		10/16/21 05:47	10/17/21 05:33	1
Aluminum	**80**		25	20	ug/L		10/16/21 05:47	10/17/21 05:33	1
Arsenic	**2.2**		2.0	0.68	ug/L		10/16/21 05:47	10/17/21 05:33	1
Barium	**24**		2.0	0.75	ug/L		10/16/21 05:47	10/17/21 05:33	1
Beryllium	ND		0.50	0.12	ug/L		10/16/21 05:47	10/17/21 05:33	1
Cadmium	ND		0.50	0.15	ug/L		10/16/21 05:47	10/17/21 05:33	1
Calcium	**280000**		10000	7400	ug/L		10/16/21 05:47	10/17/21 06:55	100
Chromium	ND		2.0	0.33	ug/L		10/16/21 05:47	10/17/21 05:33	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Client Sample ID: RECEIVING-WATER-001
Date Collected: 10/13/21 10:20
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59007-2
Matrix: Surface Water

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.17	J	0.50	0.16	ug/L		10/16/21 05:47	10/17/21 05:33	1
Copper	2.0		1.0	0.36	ug/L		10/16/21 05:47	10/17/21 05:33	1
Iron	210		50	23	ug/L		10/16/21 05:47	10/17/21 05:33	1
Lead	1.0		0.50	0.071	ug/L		10/16/21 05:47	10/17/21 05:33	1
Magnesium	790000		5000	1000	ug/L		10/16/21 05:47	10/17/21 06:55	100
Manganese	87	B	2.0	0.63	ug/L		10/16/21 05:47	10/17/21 05:33	1
Nickel	1.5		1.0	0.60	ug/L		10/16/21 05:47	10/17/21 05:33	1
Potassium	240000		20000	11000	ug/L		10/16/21 05:47	10/17/21 06:55	100
Selenium	1.3		1.0	0.28	ug/L		10/16/21 05:47	10/17/21 05:33	1
Silver	ND		0.50	0.17	ug/L		10/16/21 05:47	10/17/21 05:33	1
Sodium	6700000	^2	20000	5000	ug/L		10/16/21 05:47	10/17/21 06:55	100
Thallium	ND		0.50	0.13	ug/L		10/16/21 05:47	10/17/21 05:33	1
Vanadium	ND	F1	4.0	0.79	ug/L		10/16/21 05:47	10/19/21 17:03	1
Zinc	12		10	6.2	ug/L		10/16/21 05:47	10/17/21 05:33	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/19/21 05:24	10/19/21 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			10/14/21 09:56	1
Turbidity	1.6		1.0	1.0	NTU			10/14/21 19:45	1
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	2.6	mg/L			10/16/21 00:29	1
Total Hardness	4300	F1	500	150	mg/L			10/18/21 12:38	50
Specific Conductance	29000		5.0	1.7	umhos/cm			10/16/21 00:29	1
Total Dissolved Solids	32000		2400	960	mg/L			10/18/21 08:56	1
Settleable Solids	ND		0.10	0.10	mL/L			10/14/21 19:05	1
Total Kjeldahl Nitrogen	0.57	J	1.0	0.50	mg/L		10/15/21 05:40	10/15/21 13:08	1
Nitrate as N	0.47		0.10	0.040	mg/L			10/19/21 07:03	1
Total Phosphorus as PO4	0.45		0.31	0.25	mg/L		10/15/21 13:51	10/18/21 10:11	1
Chemical Oxygen Demand	510	J	750	250	mg/L			10/18/21 14:31	10
Phenols, Total	ND		0.10	0.050	mg/L			10/14/21 13:17	5
pH	7.4	HF	0.01	0.01	S.U.			10/16/21 00:29	1
Temperature	23.7	HF	0.01	0.01	Degrees C			10/16/21 00:29	1
Biochemical Oxygen Demand	ND		1.5	1.5	mg/L			10/14/21 20:26	1

General Chemistry
Lab: Eurofins TestAmerica, Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.6		2.5	2.5	mg/L			10/20/21 07:57	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Client Sample ID: QAQC_TB
Date Collected: 10/06/21 00:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59007-3
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/15/21 14:43	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Benzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Bromoform	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Bromomethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/15/21 14:43	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/15/21 14:43	1
Chloroethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Chloroform	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Chloromethane	ND		1.0	0.30	ug/L			10/15/21 14:43	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/15/21 14:43	1
1,4-Dioxane	ND		50	15	ug/L			10/15/21 14:43	1
Toluene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/15/21 14:43	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/15/21 14:43	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/15/21 14:43	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/15/21 14:43	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 14:43	1
Trichloroethene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
2-Hexanone	ND		2.0	0.50	ug/L			10/15/21 14:43	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/15/21 14:43	1
2-Propanol	ND		20	8.0	ug/L			10/15/21 14:43	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/15/21 14:43	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 14:43	1

Client Sample ID: QAQC_TB
Date Collected: 10/06/21 00:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59007-3
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/15/21 14:43	1
Acetonitrile	ND		50	14	ug/L			10/15/21 14:43	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/15/21 14:43	1
Bromobenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Butyl acetate	ND		5.0	0.60	ug/L			10/15/21 14:43	1
Carbon disulfide	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Cyclohexane	ND		1.0	0.30	ug/L			10/15/21 14:43	1
Dibromomethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			10/15/21 14:43	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/15/21 14:43	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Freon 113	ND		1.0	0.30	ug/L			10/15/21 14:43	1
Freon 123a	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Isobutyl alcohol	ND		50	11	ug/L			10/15/21 14:43	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/15/21 14:43	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/15/21 14:43	1
Methacrylonitrile	ND		10	2.0	ug/L			10/15/21 14:43	1
Methyl iodide	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Naphthalene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Propionitrile	ND		20	4.0	ug/L			10/15/21 14:43	1
Styrene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/15/21 14:43	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/15/21 14:43	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/15/21 14:43	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/15/21 14:43	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
n-Heptane	ND		1.0	0.30	ug/L			10/15/21 14:43	1
n-Hexane	ND		1.0	0.20	ug/L			10/15/21 14:43	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/15/21 14:43	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
o-Xylene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/15/21 14:43	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/15/21 14:43	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 14:43	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/15/21 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*10/15/21 14:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*10/15/21 14:43*	*1*
Dibromofluoromethane (Surr)	*115*		*60 - 140*		*10/15/21 14:43*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*10/15/21 14:43*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Client Sample ID: QAQC_TB
Date Collected: 10/06/21 00:00
Date Received: 10/13/21 21:47

Lab Sample ID: 410-59007-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/20/21 12:11	1
Acetone	ND		20	0.70	ug/L			10/20/21 12:11	1
2-Butanone	ND		10	0.50	ug/L			10/20/21 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*10/20/21 12:11*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*10/20/21 12:11*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/20/21 12:11*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/20/21 12:11*	*1*

Action Limit Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59007-1
Project/Site: EMGPRP-31097

Client Sample ID: RCS INFLUENT
Lab Sample ID: 410-59007-1

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	ND		mg/L	5	5.6	1664A	Total/NA

Client Sample ID: RECEIVING-WATER-001
Lab Sample ID: 410-59007-2

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	ND		mg/L	5	5.0	1664A	Total/NA

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-59007-1	RCS INFLUENT	103	97	107	99
410-59007-1 - DL	RCS INFLUENT	104	95	110	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-59007-2	RECEIVING-WATER-001	107	94	114	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-59007-3	QAQC_TB	108	93	115	97
LCS 410-183303/1003	Lab Control Sample	101	97	107	102
LCS 410-183303/1004	Lab Control Sample	103	96	110	96
LCS 410-183593/1003	Lab Control Sample	103	95	107	100
LCS 410-183593/1004	Lab Control Sample	106	93	110	95
MB 410-183303/5	Method Blank	106	93	114	97
MB 410-183593/5	Method Blank	111	92	114	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-59007-1	RCS INFLUENT	105	109	95	96
410-59007-1 MS	RCS INFLUENT	106	111	98	97
410-59007-1 MSD	RCS INFLUENT	108	109	97	97

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-59007-2	RECEIVING-WATER-001	107	111	95	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-59007-3	QAQC_TB	103	107	98	99
LCS 410-183198/4	Lab Control Sample	105	109	97	97
LCS 410-184909/4	Lab Control Sample	103	106	101	99
MB 410-183198/6	Method Blank	101	111	95	98
MB 410-184909/6	Method Blank	104	107	98	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(23-140)	(36-101)	(10-77)	(49-106)	(10-59)	(26-119)
410-59007-1	RCS INFLUENT	9 S1-	71	3 S1-	70	16	107

Surrogate Legend

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

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59007-1
Project/Site: EMGPRP-31097

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL	TPHd14		
Lab Sample ID	Client Sample ID	(23-140)	(36-101)	(10-77)	(49-106)	(10-59)	(26-119)		
410-59007-2	RECEIVING-WATER-001	81	70	53	76	43	105		

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL	TPHd14		
Lab Sample ID	Client Sample ID	(23-140)	(36-101)	(10-77)	(49-106)	(10-59)	(26-119)		
LCS 410-182953/2-A	Lab Control Sample	84	69	49	65	32	102		
LCS 410-182953/4-A	Lab Control Sample	77	65	54	67	36	97		
LCSD 410-182953/3-A	Lab Control Sample Dup	91	75	50	72	34	112		
LCSD 410-182953/5-A	Lab Control Sample Dup	86	63	55	67	37	101		
MB 410-182953/1-A	Method Blank	88	69	47	69	30	103		

Surrogate Legend

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

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TFT-F1							
Lab Sample ID	Client Sample ID	(63-135)							
410-59007-1	RCS INFLUENT	101							

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TFT-F1							
Lab Sample ID	Client Sample ID	(63-135)							
410-59007-2	RECEIVING-WATER-001	94							

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59007-1
Project/Site: EMGPRP-31097

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		TFT-F1								
Lab Sample ID	Client Sample ID	(63-135)								
LCS 410-183339/5	Lab Control Sample	89								
LCSD 410-183339/6	Lab Control Sample Dup	93								
MB 410-183339/4	Method Blank	95								

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(28-130)								
410-59007-1	RCS INFLUENT	75								
410-59007-1 - DL	RCS INFLUENT	95								

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(28-130)								
410-59007-2	RECEIVING-WATER-001	61								

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(28-130)								
LCS 410-182686/2-A	Lab Control Sample	98								
LCS 410-183226/2-A	Lab Control Sample	96								
LCSD 410-183226/3-A	Lab Control Sample Dup	97								
MB 410-182686/1-A	Method Blank	97								
MB 410-183226/1-A	Method Blank	98								

Surrogate Legend

Propene = Propene

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DCB1	DCB2	TCX1	TCX2					
Lab Sample ID	Client Sample ID	(32-149)	(32-149)	(29-129)	(29-129)					
410-59007-1	RCS INFLUENT	73	73	57	46					

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(32-149)	(32-149)	(29-129)	(29-129)
410-59007-2	RECEIVING-WATER-001	80	82	68	62

Surrogate Legend
DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(32-149)	(32-149)	(29-129)	(29-129)
LCS 410-184844/2-A	Lab Control Sample	55	57	65	58
LCSD 410-184844/3-A	Lab Control Sample Dup	68	70	64	60
MB 410-184844/1-A	Method Blank	77	79	66	59

Surrogate Legend
DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-127)	(10-127)	(18-115)	(18-115)
410-59007-1	RCS INFLUENT	77	74	69	71

Surrogate Legend
DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-127)	(10-127)	(18-115)	(18-115)
410-59007-2	RECEIVING-WATER-001	84	81	75	84

Surrogate Legend
DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-127)	(10-127)	(18-115)	(18-115)
LCS 410-184846/2-A	Lab Control Sample	40	39	78	85

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(10-127)	(10-127)	(18-115)	(18-115)
LCSD 410-184846/3-A	Lab Control Sample Dup	34	34	76	83
MB 410-184846/1-A	Method Blank	80	78	73	81

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTP1
Lab Sample ID	Client Sample ID	(27-143)
410-59007-1	RCS INFLUENT	91

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Surface Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTP1
Lab Sample ID	Client Sample ID	(27-143)
410-59007-2	RECEIVING-WATER-001	72

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTP1
Lab Sample ID	Client Sample ID	(27-143)
LCS 410-184707/2-A	Lab Control Sample	83
LCSD 410-184707/3-A	Lab Control Sample Dup	78
MB 410-184707/1-A	Method Blank	78

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-183303/5
Matrix: Water
Analysis Batch: 183303

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/15/21 12:51	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/15/21 12:51	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			10/15/21 12:51	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			10/15/21 12:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Benzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
1,4-Dioxane	ND		50	15	ug/L			10/15/21 12:51	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Bromoform	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Bromomethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/15/21 12:51	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			10/15/21 12:51	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 12:51	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Chloroethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
2-Hexanone	ND		2.0	0.50	ug/L			10/15/21 12:51	1
Chloroform	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Chloromethane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
2-Propanol	ND		20	8.0	ug/L			10/15/21 12:51	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/15/21 12:51	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/15/21 12:51	1
Acetonitrile	ND		50	14	ug/L			10/15/21 12:51	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/15/21 12:51	1
Bromobenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Butyl acetate	ND		5.0	0.60	ug/L			10/15/21 12:51	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Carbon disulfide	ND		1.0	0.20	ug/L			10/15/21 12:51	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-183303/5
Matrix: Water
Analysis Batch: 183303

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Dibromomethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			10/15/21 12:51	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/15/21 12:51	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Freon 113	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Freon 123a	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Isobutyl alcohol	ND		50	11	ug/L			10/15/21 12:51	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/15/21 12:51	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/15/21 12:51	1
Methacrylonitrile	ND		10	2.0	ug/L			10/15/21 12:51	1
Methyl iodide	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Naphthalene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Propionitrile	ND		20	4.0	ug/L			10/15/21 12:51	1
Styrene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/15/21 12:51	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/15/21 12:51	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
n-Heptane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/15/21 12:51	1
n-Hexane	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/15/21 12:51	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/15/21 12:51	1
Toluene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
o-Xylene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/15/21 12:51	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Trichloroethene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/15/21 12:51	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/15/21 12:51	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/15/21 12:51	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/15/21 12:51	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/15/21 12:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/15/21 12:51	1
Acrolein	ND		10	3.0	ug/L			10/15/21 12:51	1
Acrylonitrile	ND		1.0	0.30	ug/L			10/15/21 12:51	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-183303/5
Matrix: Water
Analysis Batch: 183303

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*10/15/21 12:51*	*1*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*10/15/21 12:51*	*1*
Dibromofluoromethane (Surr)	*114*		*60 - 140*		*10/15/21 12:51*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*10/15/21 12:51*	*1*

Lab Sample ID: LCS 410-183303/1003
Matrix: Water
Analysis Batch: 183303

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	21.8		ug/L		109	60 - 140
1,1,1-Trichloroethane	20.0	21.3		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		102	60 - 140
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	70 - 130
1,1-Dichloroethane	20.0	22.6		ug/L		113	70 - 130
1,1-Dichloroethene	20.0	21.8		ug/L		109	50 - 150
1,1-Dichloropropene	20.0	19.2		ug/L		96	60 - 140
1,2,3-Trichlorobenzene	20.0	17.3		ug/L		87	60 - 140
1,2,3-Trichloropropane	20.0	20.2		ug/L		101	60 - 140
1,2,4-Trichlorobenzene	20.0	16.1		ug/L		81	60 - 140
1,2-Dichloroethane	20.0	21.2		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	20.0	18.9		ug/L		94	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	21.9		ug/L		109	60 - 140
1,2-Dichloropropane	20.0	21.0		ug/L		105	35 - 165
1,2-Dibromoethane	20.0	20.0		ug/L		100	60 - 140
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	65 - 135
1,2-Dichloroethene (total)	40.0	42.3		ug/L		106	60 - 140
1,3,5-Trimethylbenzene	20.0	18.7		ug/L		93	60 - 140
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	70 - 130
1,3-Dichloropropane	20.0	19.9		ug/L		99	60 - 140
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	65 - 135
Benzene	20.0	20.8		ug/L		104	65 - 135
1,4-Dioxane	500	445		ug/L		89	60 - 140
Bromodichloromethane	20.0	24.2		ug/L		121	65 - 135
2,2-Dichloropropane	20.0	22.7		ug/L		113	60 - 140
Bromoform	20.0	24.4		ug/L		122	70 - 130
Bromomethane	20.0	19.2		ug/L		96	15 - 185
2-Chloro-1,3-butadiene	20.0	21.5		ug/L		107	60 - 140
Carbon tetrachloride	20.0	22.5		ug/L		112	70 - 130
2-Chlorotoluene	20.0	19.1		ug/L		96	60 - 140
Chlorobenzene	20.0	20.6		ug/L		103	65 - 135
Chloroethane	20.0	20.4		ug/L		102	40 - 160
2-Hexanone	250	267		ug/L		107	60 - 140
Chloroform	20.0	21.3		ug/L		107	70 - 135
Chloromethane	20.0	18.6		ug/L		93	10 - 200
2-Propanol	150	167		ug/L		111	60 - 140
cis-1,2-Dichloroethene	20.0	20.9		ug/L		105	60 - 140
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	25 - 175

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-183303/1003
Matrix: Water
Analysis Batch: 183303

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	20.0	19.7		ug/L		98	60 - 140
Dibromochloromethane	20.0	24.0		ug/L		120	70 - 135
4-Methyl-2-pentanone	250	264		ug/L		105	60 - 140
Benzyl chloride	20.0	22.3		ug/L		111	60 - 140
Bromobenzene	20.0	19.9		ug/L		99	60 - 140
Ethylbenzene	20.0	19.4		ug/L		97	60 - 140
Carbon disulfide	20.0	21.5		ug/L		107	60 - 140
Cyclohexane	20.0	16.6		ug/L		83	60 - 140
Dibromomethane	20.0	22.3		ug/L		112	60 - 140
Dichlorodifluoromethane	20.0	19.3		ug/L		97	60 - 140
Dichlorofluoromethane	20.0	21.7		ug/L		108	60 - 140
Ethyl methacrylate	20.0	16.7		ug/L		83	60 - 140
Ethyl t-butyl ether	20.0	20.0		ug/L		100	60 - 140
Freon 113	20.0	20.8		ug/L		104	60 - 140
Freon 123a	20.0	21.2		ug/L		106	60 - 140
Hexachlorobutadiene	20.0	17.9		ug/L		90	60 - 140
Methylene Chloride	20.0	21.9		ug/L		110	60 - 140
Isobutyl alcohol	500	457		ug/L		91	60 - 140
Isopropylbenzene	20.0	18.4		ug/L		92	60 - 140
Methacrylonitrile	150	156		ug/L		104	60 - 140
Methyl iodide	20.0	19.8		ug/L		99	60 - 140
Methyl methacrylate	20.0	18.4		ug/L		92	60 - 140
Naphthalene	20.0	15.9		ug/L		80	60 - 140
Propionitrile	150	173		ug/L		115	60 - 140
Styrene	20.0	19.6		ug/L		98	60 - 140
di-Isopropyl ether	20.0	20.4		ug/L		102	60 - 140
m&p-Xylene	40.0	40.2		ug/L		100	60 - 140
n-Butylbenzene	20.0	19.8		ug/L		99	60 - 140
n-Heptane	20.0	17.3		ug/L		87	60 - 140
Tetrachloroethene	20.0	18.8		ug/L		94	70 - 130
n-Hexane	20.0	19.2		ug/L		96	60 - 140
Tetrahydrofuran	100	100		ug/L		100	60 - 140
Toluene	20.0	19.7		ug/L		99	70 - 130
N-Propylbenzene	20.0	19.5		ug/L		98	60 - 140
o-Xylene	20.0	18.4		ug/L		92	60 - 140
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	70 - 130
p-Isopropyltoluene	20.0	18.7		ug/L		94	60 - 140
trans-1,3-Dichloropropene	20.0	21.3		ug/L		107	50 - 150
sec-Butylbenzene	20.0	18.6		ug/L		93	60 - 140
t-Amyl methyl ether	20.0	16.5		ug/L		83	60 - 140
Trichloroethene	20.0	20.1		ug/L		100	65 - 135
t-Butyl alcohol	200	247		ug/L		123	60 - 140
Trichlorofluoromethane	20.0	19.6		ug/L		98	50 - 150
tert-Butylbenzene	20.0	17.0		ug/L		85	60 - 140
trans-1,4-Dichloro-2-butene	100	111		ug/L		111	60 - 140
Vinyl chloride	20.0	18.5		ug/L		93	10 - 195
Xylenes, Total	60.0	58.6		ug/L		98	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-183303/1003
Matrix: Water
Analysis Batch: 183303

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*
Dibromofluoromethane (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*102*		*60 - 140*

Lab Sample ID: LCS 410-183303/1004
Matrix: Water
Analysis Batch: 183303

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetonitrile	150	186		ug/L		124	60 - 140
Butyl acetate	20.0	16.5		ug/L		83	60 - 140
Ethyl acetate	20.0	21.8		ug/L		109	60 - 140
Isopropyl acetate	20.0	19.5		ug/L		97	60 - 140
n-Propyl acetate	20.0	16.4		ug/L		82	60 - 140
Vinyl acetate	100	122		ug/L		122	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*
Dibromofluoromethane (Surr)	*110*		*60 - 140*
Toluene-d8 (Surr)	*96*		*60 - 140*

Lab Sample ID: MB 410-183593/5
Matrix: Water
Analysis Batch: 183593

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/16/21 10:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/16/21 10:17	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/16/21 10:17	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			10/16/21 10:17	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			10/16/21 10:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-183593/5
Matrix: Water
Analysis Batch: 183593

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Benzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
1,4-Dioxane	ND		50	15	ug/L			10/16/21 10:17	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/16/21 10:17	1
Bromoform	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Bromomethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/16/21 10:17	1
Carbon tetrachloride	ND		1.0	0.20	ug/L			10/16/21 10:17	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/16/21 10:17	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Chloroethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
2-Hexanone	ND		2.0	0.50	ug/L			10/16/21 10:17	1
Chloroform	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Chloromethane	ND		1.0	0.30	ug/L			10/16/21 10:17	1
2-Propanol	ND		20	8.0	ug/L			10/16/21 10:17	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/16/21 10:17	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/16/21 10:17	1
Acetonitrile	ND		50	14	ug/L			10/16/21 10:17	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/16/21 10:17	1
Bromobenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Butyl acetate	ND		5.0	0.60	ug/L			10/16/21 10:17	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Carbon disulfide	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Cyclohexane	ND		1.0	0.30	ug/L			10/16/21 10:17	1
Dibromomethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Dichlorodifluoromethane	ND		1.0	0.10	ug/L			10/16/21 10:17	1
Dichlorofluoromethane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/16/21 10:17	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Freon 113	ND		1.0	0.30	ug/L			10/16/21 10:17	1
Freon 123a	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/16/21 10:17	1
Isobutyl alcohol	ND		50	11	ug/L			10/16/21 10:17	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/16/21 10:17	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/16/21 10:17	1
Methacrylonitrile	ND		10	2.0	ug/L			10/16/21 10:17	1
Methyl iodide	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Naphthalene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Propionitrile	ND		20	4.0	ug/L			10/16/21 10:17	1
Styrene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/16/21 10:17	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-183593/5
Matrix: Water
Analysis Batch: 183593

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m&p-Xylene	ND		1.0	0.30	ug/L			10/16/21 10:17	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
n-Heptane	ND		1.0	0.30	ug/L			10/16/21 10:17	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/16/21 10:17	1
n-Hexane	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/16/21 10:17	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/16/21 10:17	1
Toluene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
o-Xylene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/16/21 10:17	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Trichloroethene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/16/21 10:17	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/16/21 10:17	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/16/21 10:17	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/16/21 10:17	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/16/21 10:17	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/16/21 10:17	1
Acrolein	ND		10	3.0	ug/L			10/16/21 10:17	1
Acrylonitrile	ND		1.0	0.30	ug/L			10/16/21 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*10/16/21 10:17*	*1*
4-Bromofluorobenzene (Surr)	*92*		*60 - 140*		*10/16/21 10:17*	*1*
Dibromofluoromethane (Surr)	*114*		*60 - 140*		*10/16/21 10:17*	*1*
Toluene-d8 (Surr)	*96*		*60 - 140*		*10/16/21 10:17*	*1*

Lab Sample ID: LCS 410-183593/1003
Matrix: Water
Analysis Batch: 183593

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	21.8		ug/L		109	60 - 140
1,1,1-Trichloroethane	20.0	21.5		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	60 - 140
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	70 - 130
1,1-Dichloroethane	20.0	22.6		ug/L		113	70 - 130
1,1-Dichloroethene	20.0	22.2		ug/L		111	50 - 150
1,1-Dichloropropene	20.0	19.3		ug/L		96	60 - 140
1,2,3-Trichlorobenzene	20.0	17.5		ug/L		87	60 - 140
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	60 - 140
1,2,4-Trichlorobenzene	20.0	16.4		ug/L		82	60 - 140
1,2-Dichloroethane	20.0	20.6		ug/L		103	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-183593/1003
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 183593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	18.7		ug/L		94	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	20.9		ug/L		105	60 - 140
1,2-Dichloropropane	20.0	20.5		ug/L		103	35 - 165
1,2-Dibromoethane	20.0	19.7		ug/L		98	60 - 140
1,2-Dichlorobenzene	20.0	19.7		ug/L		99	65 - 135
1,2-Dichloroethene (total)	40.0	41.9		ug/L		105	60 - 140
1,3,5-Trimethylbenzene	20.0	18.3		ug/L		92	60 - 140
1,3-Dichlorobenzene	20.0	19.1		ug/L		95	70 - 130
1,3-Dichloropropane	20.0	19.6		ug/L		98	60 - 140
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	65 - 135
Benzene	20.0	20.7		ug/L		104	65 - 135
1,4-Dioxane	500	599		ug/L		120	60 - 140
Bromodichloromethane	20.0	23.7		ug/L		118	65 - 135
2,2-Dichloropropane	20.0	22.2		ug/L		111	60 - 140
Bromoform	20.0	25.2		ug/L		126	70 - 130
Bromomethane	20.0	18.5		ug/L		93	15 - 185
2-Chloro-1,3-butadiene	20.0	21.6		ug/L		108	60 - 140
Carbon tetrachloride	20.0	22.9		ug/L		114	70 - 130
2-Chlorotoluene	20.0	18.9		ug/L		94	60 - 140
Chlorobenzene	20.0	20.4		ug/L		102	65 - 135
Chloroethane	20.0	20.7		ug/L		103	40 - 160
2-Hexanone	250	269		ug/L		108	60 - 140
Chloroform	20.0	21.4		ug/L		107	70 - 135
Chloromethane	20.0	18.1		ug/L		90	10 - 200
2-Propanol	150	126		ug/L		84	60 - 140
cis-1,2-Dichloroethene	20.0	20.7		ug/L		104	60 - 140
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	25 - 175
4-Chlorotoluene	20.0	19.5		ug/L		97	60 - 140
Dibromochloromethane	20.0	23.6		ug/L		118	70 - 135
4-Methyl-2-pentanone	250	266		ug/L		106	60 - 140
Benzyl chloride	20.0	21.7		ug/L		109	60 - 140
Bromobenzene	20.0	19.5		ug/L		98	60 - 140
Ethylbenzene	20.0	19.4		ug/L		97	60 - 140
Carbon disulfide	20.0	21.5		ug/L		108	60 - 140
Cyclohexane	20.0	16.5		ug/L		82	60 - 140
Dibromomethane	20.0	22.1		ug/L		110	60 - 140
Dichlorodifluoromethane	20.0	18.8		ug/L		94	60 - 140
Dichlorofluoromethane	20.0	21.7		ug/L		109	60 - 140
Ethyl methacrylate	20.0	16.6		ug/L		83	60 - 140
Ethyl t-butyl ether	20.0	19.9		ug/L		99	60 - 140
Freon 113	20.0	21.7		ug/L		108	60 - 140
Freon 123a	20.0	21.4		ug/L		107	60 - 140
Hexachlorobutadiene	20.0	17.8		ug/L		89	60 - 140
Methylene Chloride	20.0	22.1		ug/L		110	60 - 140
Isobutyl alcohol	500	541		ug/L		108	60 - 140
Isopropylbenzene	20.0	18.4		ug/L		92	60 - 140
Methacrylonitrile	150	159		ug/L		106	60 - 140
Methyl iodide	20.0	20.1		ug/L		100	60 - 140
Methyl methacrylate	20.0	19.0		ug/L		95	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-183593/1003
Matrix: Water
Analysis Batch: 183593

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	20.0	16.0		ug/L		80	60 - 140
Propionitrile	150	198		ug/L		132	60 - 140
Styrene	20.0	19.5		ug/L		97	60 - 140
di-Isopropyl ether	20.0	20.4		ug/L		102	60 - 140
m&p-Xylene	40.0	40.3		ug/L		101	60 - 140
n-Butylbenzene	20.0	19.8		ug/L		99	60 - 140
n-Heptane	20.0	17.3		ug/L		87	60 - 140
Tetrachloroethene	20.0	18.9		ug/L		94	70 - 130
n-Hexane	20.0	19.7		ug/L		98	60 - 140
Tetrahydrofuran	100	109		ug/L		109	60 - 140
Toluene	20.0	19.5		ug/L		97	70 - 130
N-Propylbenzene	20.0	18.8		ug/L		94	60 - 140
o-Xylene	20.0	18.5		ug/L		92	60 - 140
trans-1,2-Dichloroethene	20.0	21.2		ug/L		106	70 - 130
p-Isopropyltoluene	20.0	18.7		ug/L		94	60 - 140
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	50 - 150
sec-Butylbenzene	20.0	18.5		ug/L		93	60 - 140
t-Amyl methyl ether	20.0	16.4		ug/L		82	60 - 140
Trichloroethene	20.0	20.1		ug/L		101	65 - 135
t-Butyl alcohol	200	245		ug/L		123	60 - 140
Trichlorofluoromethane	20.0	20.2		ug/L		101	50 - 150
tert-Butylbenzene	20.0	17.5		ug/L		87	60 - 140
trans-1,4-Dichloro-2-butene	100	103		ug/L		103	60 - 140
Vinyl chloride	20.0	18.1		ug/L		90	10 - 195
Xylenes, Total	60.0	58.8		ug/L		98	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*
Dibromofluoromethane (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*

Lab Sample ID: LCS 410-183593/1004
Matrix: Water
Analysis Batch: 183593

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetonitrile	150	229	*+	ug/L		152	60 - 140
Butyl acetate	20.0	16.3		ug/L		81	60 - 140
Ethyl acetate	20.0	21.5		ug/L		107	60 - 140
Isopropyl acetate	20.0	19.2		ug/L		96	60 - 140
n-Propyl acetate	20.0	16.3		ug/L		82	60 - 140
Vinyl acetate	100	121		ug/L		121	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*
Dibromofluoromethane (Surr)	*110*		*60 - 140*

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-183593/1004
Matrix: Water
Analysis Batch: 183593

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*95*		*60 - 140*

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

Lab Sample ID: MB 410-183198/6
Matrix: Water
Analysis Batch: 183198

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/15/21 10:41	1
Acetone	ND		20	0.70	ug/L			10/15/21 10:41	1
2-Butanone	ND		10	0.50	ug/L			10/15/21 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/15/21 10:41*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*10/15/21 10:41*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/15/21 10:41*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/15/21 10:41*	*1*

Lab Sample ID: LCS 410-183198/4
Matrix: Water
Analysis Batch: 183198

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methyl tertiary butyl ether			20.0	18.0		ug/L		90	69 - 122		
Acetone			250	220		ug/L		88	54 - 157		
2-Butanone			250	217		ug/L		87	59 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 410-59007-1 MS
Matrix: Groundwater
Analysis Batch: 183198

Client Sample ID: RCS INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methyl tertiary butyl ether	4.9		20.0	22.5		ug/L		88	69 - 122		
Acetone	3.1	J	250	182		ug/L		71	54 - 157		
2-Butanone	ND		250	206		ug/L		83	59 - 135		

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

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

Lab Sample ID: 410-59007-1 MSD
Matrix: Groundwater
Analysis Batch: 183198

Client Sample ID: RCS INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tertiary butyl ether	4.9		20.0	24.0		ug/L		95	69 - 122	6	30
Acetone	3.1	J	250	216		ug/L		85	54 - 157	17	30
2-Butanone	ND		250	221		ug/L		88	59 - 135	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 410-184909/6
Matrix: Water
Analysis Batch: 184909

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/20/21 10:28	1
Acetone	ND		20	0.70	ug/L			10/20/21 10:28	1
2-Butanone	ND		10	0.50	ug/L			10/20/21 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*10/20/21 10:28*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*10/20/21 10:28*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/20/21 10:28*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/20/21 10:28*	*1*

Lab Sample ID: LCS 410-184909/4
Matrix: Water
Analysis Batch: 184909

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methyl tertiary butyl ether			20.0	17.8		ug/L		89	69 - 122		
Acetone			250	203		ug/L		81	54 - 157		
2-Butanone			250	242		ug/L		97	59 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-182953/1-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-182953/1-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
1,4-Dioxane	ND		5.0	2.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		10/14/21 17:30	10/18/21 14:52	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Chlorophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Methylphenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Nitroaniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
2-Nitrophenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		10/14/21 17:30	10/18/21 14:52	1
3-Nitroaniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Chloroaniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Methylphenol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Nitroaniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
4-Nitrophenol	ND		5.0	0.90	ug/L		10/14/21 17:30	10/18/21 14:52	1
Acenaphthene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
Acenaphthylene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Acetophenone	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Aniline	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Anthracene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
a-Terpineol	ND		5.0	0.60	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzidine	ND		60	6.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Benzoic acid	ND		30	4.0	ug/L		10/14/21 17:30	10/18/21 14:52	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-182953/1-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Carbazole	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Chrysene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		10/14/21 17:30	10/18/21 14:52	1
Dibenzofuran	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Diethylphthalate	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Dimethylphthalate	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Diphenyl ether	ND		5.0	0.75	ug/L		10/14/21 17:30	10/18/21 14:52	1
Fluoranthene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Fluorene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Hexachloroethane	ND		2.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		10/14/21 17:30	10/18/21 14:52	1
Isophorone	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Naphthalene	ND		2.0	0.30	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Decane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Docosane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Eicosane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Hexadecane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Nitrobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Octadecane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
n-Tetradecane	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
o-Toluidine	ND		5.0	1.0	ug/L		10/14/21 17:30	10/18/21 14:52	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Pentachlorophenol	ND		5.0	0.80	ug/L		10/14/21 17:30	10/18/21 14:52	1
Phenanthrene	ND		5.0	0.20	ug/L		10/14/21 17:30	10/18/21 14:52	1
Phenol	ND		1.0	0.50	ug/L		10/14/21 17:30	10/18/21 14:52	1
Pyrene	ND		5.0	0.25	ug/L		10/14/21 17:30	10/18/21 14:52	1
Pyridine	ND		5.0	0.80	ug/L		10/14/21 17:30	10/18/21 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*88*		*23 - 140*	*10/14/21 17:30*	*10/18/21 14:52*	*1*
2-Fluorobiphenyl (Surr)	*69*		*36 - 101*	*10/14/21 17:30*	*10/18/21 14:52*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 77*	*10/14/21 17:30*	*10/18/21 14:52*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-182953/1-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182953

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*69*		*49 - 106*	*10/14/21 17:30*	*10/18/21 14:52*	*1*
Phenol-d5 (Surr)	*30*		*10 - 59*	*10/14/21 17:30*	*10/18/21 14:52*	*1*
p-Terphenyl-d14 (Surr)	*103*		*26 - 119*	*10/14/21 17:30*	*10/18/21 14:52*	*1*

Lab Sample ID: LCS 410-182953/2-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	50.0	41.3		ug/L		83	52 - 106
1,2,4,5-Tetrachlorobenzene	50.0	32.4		ug/L		65	43 - 94
1,2,4-Trichlorobenzene	50.0	27.5		ug/L		55	44 - 142
1,2-Dichlorobenzene	50.0	30.4		ug/L		61	36 - 87
1,2-Diphenylhydrazine	50.0	41.4		ug/L		83	69 - 117
1,3-Dichlorobenzene	50.0	29.5		ug/L		59	30 - 85
1,4-Dichlorobenzene	50.0	28.6		ug/L		57	32 - 85
1,4-Dioxane	50.0	19.9		ug/L		40	30 - 60
1-Methylnaphthalene	50.0	36.1		ug/L		72	53 - 91
1-Methylphenanthrene	50.0	41.6		ug/L		83	56 - 128
2,2'-oxybis[1-chloropropane]	50.0	48.8		ug/L		98	48 - 110
2,3,4,6-Tetrachlorophenol	50.0	36.9		ug/L		74	72 - 115
2,3-Dichloroaniline	50.0	41.8		ug/L		84	65 - 118
2,4,5-Trichlorophenol	50.0	42.8		ug/L		86	70 - 110
2,4,6-Trichlorophenol	50.0	44.5		ug/L		89	37 - 144
2,4-Dichlorophenol	50.0	40.9		ug/L		82	39 - 135
2,4-Dimethylphenol	50.0	37.0		ug/L		74	32 - 120
2,4-Dinitrophenol	100	83.5		ug/L		83	10 - 191
2,4-Dinitrotoluene	50.0	44.1		ug/L		88	39 - 139
2,6-Dichlorophenol	50.0	40.8		ug/L		82	48 - 114
2,6-Dinitrotoluene	50.0	44.7		ug/L		89	50 - 158
2-Chloronaphthalene	50.0	35.8		ug/L		72	60 - 120
2-Chlorophenol	50.0	41.5		ug/L		83	23 - 134
2-Methylnaphthalene	50.0	34.7		ug/L		69	50 - 100
2-Methylphenol	50.0	37.2		ug/L		74	56 - 99
2-Nitroaniline	50.0	45.2		ug/L		90	71 - 119
2-Nitrophenol	50.0	46.1		ug/L		92	29 - 182
3,3'-Dichlorobenzidine	100	79.1		ug/L		79	10 - 200
3-Nitroaniline	50.0	44.1		ug/L		88	64 - 113
4,6-Dinitro-2-methylphenol	100	105		ug/L		105	10 - 181
4-Bromophenyl-phenylether	50.0	43.7		ug/L		87	53 - 127
4-Chloro-3-methylphenol	50.0	36.6		ug/L		73	22 - 147
4-Chloroaniline	50.0	39.3		ug/L		79	47 - 93
4-Chlorophenyl-phenylether	50.0	38.3		ug/L		77	25 - 158
4-Methylphenol	50.0	31.1		ug/L		62	47 - 96
4-Nitroaniline	50.0	42.7		ug/L		85	52 - 112
4-Nitrophenol	100	38.1		ug/L		38	10 - 132
Acenaphthene	50.0	40.9		ug/L		82	47 - 145
Acenaphthylene	50.0	42.7		ug/L		85	33 - 145

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-182953/2-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	50.0	36.5		ug/L		73	64 - 101
Aniline	50.0	32.3		ug/L		65	24 - 79
Anthracene	50.0	45.4		ug/L		91	27 - 133
a-Terpineol	50.0	42.6		ug/L		85	55 - 122
Benzidine	100	51.8	J *+	ug/L		52	10 - 48
Benzo[a]anthracene	50.0	47.4		ug/L		95	33 - 143
Benzo[a]pyrene	50.0	49.6		ug/L		99	17 - 163
Benzo[b]fluoranthene	50.0	41.4		ug/L		83	24 - 159
Benzo[g,h,i]perylene	50.0	53.5		ug/L		107	10 - 200
Benzo[k]fluoranthene	50.0	50.2		ug/L		100	11 - 162
Benzoic acid	50.0	27.3	J	ug/L		55	10 - 74
Benzyl alcohol	50.0	39.7		ug/L		79	52 - 109
Bis(2-chloroethoxy)methane	50.0	38.1		ug/L		76	33 - 184
Bis(2-chloroethyl)ether	50.0	37.2		ug/L		74	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	59.7		ug/L		119	10 - 158
Butylbenzylphthalate	50.0	16.1		ug/L		32	10 - 152
Carbazole	50.0	45.1		ug/L		90	72 - 114
Chrysene	50.0	47.0		ug/L		94	17 - 168
Dibenz(a,h)anthracene	50.0	50.9		ug/L		102	10 - 200
Dibenzofuran	50.0	40.6		ug/L		81	64 - 106
Diethylphthalate	50.0	23.2		ug/L		46	10 - 120
Dimethylphthalate	50.0	5.44		ug/L		11	10 - 120
Di-n-butyl phthalate	50.0	37.8		ug/L		76	10 - 120
Di-n-octyl phthalate	50.0	62.6		ug/L		125	10 - 146
Diphenyl ether	50.0	39.3		ug/L		79	59 - 105
Fluoranthene	50.0	42.0		ug/L		84	26 - 137
Fluorene	50.0	42.2		ug/L		84	59 - 121
Hexachlorobenzene	50.0	43.1		ug/L		86	10 - 152
Hexachlorobutadiene	50.0	25.3		ug/L		51	24 - 120
Hexachlorocyclopentadiene	50.0	11.8	J	ug/L		24	10 - 79
Hexachloroethane	50.0	26.1		ug/L		52	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	44.1		ug/L		88	10 - 171
Isophorone	50.0	38.3		ug/L		77	21 - 196
Naphthalene	50.0	35.7		ug/L		71	21 - 133
n-Decane	50.0	37.1		ug/L		74	31 - 93
n-Docosane	50.0	68.5		ug/L		137	55 - 152
n-Eicosane	50.0	62.1		ug/L		124	49 - 151
n-Hexadecane	50.0	51.0		ug/L		102	50 - 127
Nitrobenzene	50.0	34.8		ug/L		70	35 - 180
N-Nitrosodimethylamine	50.0	27.4		ug/L		55	38 - 74
N-Nitrosodi-n-propylamine	50.0	35.2		ug/L		70	10 - 200
N-Nitrosodiphenylamine	42.5	38.3		ug/L		90	72 - 113
n-Octadecane	50.0	55.7		ug/L		111	59 - 133
n-Tetradecane	50.0	50.6		ug/L		101	46 - 113
Pentachlorophenol	100	78.9		ug/L		79	14 - 176
Phenanthrene	50.0	45.2		ug/L		90	54 - 120
Phenol	50.0	18.5		ug/L		37	10 - 120
Pyrene	50.0	47.7		ug/L		95	52 - 120
Pyridine	100	41.7		ug/L		42	27 - 52

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromofenol (Surr)	84		23 - 140
2-Fluorobiphenyl (Surr)	69		36 - 101
2-Fluorophenol (Surr)	49		10 - 77
Nitrobenzene-d5 (Surr)	65		49 - 106
Phenol-d5 (Surr)	32		10 - 59
p-Terphenyl-d14 (Surr)	102		26 - 119

Lab Sample ID: LCS 410-182953/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 183988 — **Prep Batch: 182953**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	50.0	37.4		ug/L		75	75 - 110
N-Nitrosodi-n-butylamine	50.0	33.6		ug/L		67	57 - 101
N-Nitrosopyrrolidine	50.0	34.9		ug/L		70	65 - 112
o-Toluidine	50.0	34.9		ug/L		70	52 - 82
Pentachlorobenzene	50.0	30.3		ug/L		61	27 - 108

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromofenol (Surr)	77		23 - 140
2-Fluorobiphenyl (Surr)	65		36 - 101
2-Fluorophenol (Surr)	54		10 - 77
Nitrobenzene-d5 (Surr)	67		49 - 106
Phenol-d5 (Surr)	36		10 - 59
p-Terphenyl-d14 (Surr)	97		26 - 119

Lab Sample ID: LCSD 410-182953/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 183988 — **Prep Batch: 182953**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	50.0	44.5		ug/L		89	52 - 106	7	30
1,2,4,5-Tetrachlorobenzene	50.0	36.0		ug/L		72	43 - 94	10	30
1,2,4-Trichlorobenzene	50.0	31.3		ug/L		63	44 - 142	13	30
1,2-Dichlorobenzene	50.0	35.1		ug/L		70	36 - 87	14	30
1,2-Diphenylhydrazine	50.0	46.2		ug/L		92	69 - 117	11	30
1,3-Dichlorobenzene	50.0	35.0		ug/L		70	30 - 85	17	30
1,4-Dichlorobenzene	50.0	33.9		ug/L		68	32 - 85	17	30
1,4-Dioxane	50.0	19.6		ug/L		39	30 - 60	2	30
1-Methylnaphthalene	50.0	41.1		ug/L		82	53 - 91	13	30
1-Methylphenanthrene	50.0	45.3		ug/L		91	56 - 128	9	30
2,2'-oxybis[1-chloropropane]	50.0	55.1		ug/L		110	48 - 110	12	30
2,3,4,6-Tetrachlorophenol	50.0	40.8		ug/L		82	72 - 115	10	30
2,3-Dichloroaniline	50.0	44.2		ug/L		88	65 - 118	6	30
2,4,5-Trichlorophenol	50.0	48.1		ug/L		96	70 - 110	11	30
2,4,6-Trichlorophenol	50.0	48.5		ug/L		97	37 - 144	9	30
2,4-Dichlorophenol	50.0	44.9		ug/L		90	39 - 135	9	30
2,4-Dimethylphenol	50.0	40.6		ug/L		81	32 - 120	9	30
2,4-Dinitrophenol	100	88.0		ug/L		88	10 - 191	5	30
2,4-Dinitrotoluene	50.0	48.8		ug/L		98	39 - 139	10	30
2,6-Dichlorophenol	50.0	44.4		ug/L		89	48 - 114	8	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-182953/3-A
Matrix: Water
Analysis Batch: 183988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182953

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene	50.0	49.8		ug/L		100	50 - 158	11	30
2-Chloronaphthalene	50.0	39.5		ug/L		79	60 - 120	10	24
2-Chlorophenol	50.0	44.8		ug/L		90	23 - 134	7	30
2-Methylnaphthalene	50.0	39.0		ug/L		78	50 - 100	12	30
2-Methylphenol	50.0	41.8		ug/L		84	56 - 99	12	30
2-Nitroaniline	50.0	50.0		ug/L		100	71 - 119	10	30
2-Nitrophenol	50.0	50.3		ug/L		101	29 - 182	9	30
3,3'-Dichlorobenzidine	100	90.3		ug/L		90	10 - 200	13	30
3-Nitroaniline	50.0	48.2		ug/L		96	64 - 113	9	30
4,6-Dinitro-2-methylphenol	100	112		ug/L		112	10 - 181	7	30
4-Bromophenyl-phenylether	50.0	46.6		ug/L		93	53 - 127	6	30
4-Chloro-3-methylphenol	50.0	39.9		ug/L		80	22 - 147	9	30
4-Chloroaniline	50.0	42.9		ug/L		86	47 - 93	9	30
4-Chlorophenyl-phenylether	50.0	44.1		ug/L		88	25 - 158	14	30
4-Methylphenol	50.0	34.6		ug/L		69	47 - 96	11	30
4-Nitroaniline	50.0	46.5		ug/L		93	52 - 112	8	30
4-Nitrophenol	100	37.3		ug/L		37	10 - 132	2	30
Acenaphthene	50.0	43.7		ug/L		87	47 - 145	7	30
Acenaphthylene	50.0	48.0		ug/L		96	33 - 145	12	30
Acetophenone	50.0	42.4		ug/L		85	64 - 101	15	30
Aniline	50.0	35.5		ug/L		71	24 - 79	9	30
Anthracene	50.0	49.3		ug/L		99	27 - 133	8	30
a-Terpineol	50.0	46.0		ug/L		92	55 - 122	8	30
Benzidine	100	43.7	J	ug/L		44	10 - 48	17	30
Benzo[a]anthracene	50.0	49.4		ug/L		99	33 - 143	4	30
Benzo[a]pyrene	50.0	50.3		ug/L		101	17 - 163	1	30
Benzo[b]fluoranthene	50.0	43.6		ug/L		87	24 - 159	5	30
Benzo[g,h,i]perylene	50.0	54.7		ug/L		109	10 - 200	2	30
Benzo[k]fluoranthene	50.0	52.5		ug/L		105	11 - 162	4	30
Benzoic acid	50.0	25.7	J	ug/L		51	10 - 74	6	30
Benzyl alcohol	50.0	36.7		ug/L		73	52 - 109	8	30
Bis(2-chloroethoxy)methane	50.0	41.2		ug/L		82	33 - 184	8	30
Bis(2-chloroethyl)ether	50.0	43.3		ug/L		87	12 - 158	15	30
Bis(2-ethylhexyl) phthalate	50.0	63.9		ug/L		128	10 - 158	7	30
Butylbenzylphthalate	50.0	47.4	*1	ug/L		95	10 - 152	99	30
Carbazole	50.0	48.8		ug/L		98	72 - 114	8	30
Chrysene	50.0	49.4		ug/L		99	17 - 168	5	30
Dibenz(a,h)anthracene	50.0	53.2		ug/L		106	10 - 200	4	30
Dibenzofuran	50.0	44.3		ug/L		89	64 - 106	9	30
Diethylphthalate	50.0	41.8	*1	ug/L		84	10 - 120	57	30
Dimethylphthalate	50.0	32.2	*1	ug/L		64	10 - 120	142	30
Di-n-butyl phthalate	50.0	52.1	*1	ug/L		104	10 - 120	32	30
Di-n-octyl phthalate	50.0	66.5		ug/L		133	10 - 146	6	30
Diphenyl ether	50.0	42.0		ug/L		84	59 - 105	7	30
Fluoranthene	50.0	44.8		ug/L		90	26 - 137	6	30
Fluorene	50.0	45.6		ug/L		91	59 - 121	8	30
Hexachlorobenzene	50.0	47.6		ug/L		95	10 - 152	10	30
Hexachlorobutadiene	50.0	28.9		ug/L		58	24 - 120	13	30
Hexachlorocyclopentadiene	50.0	14.3	J	ug/L		29	10 - 79	19	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-182953/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 183988
Prep Batch: 182953

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachloroethane			50.0	30.3		ug/L		61	40 - 120	15	30
Indeno[1,2,3-cd]pyrene			50.0	46.4		ug/L		93	10 - 171	5	30
Isophorone			50.0	41.9		ug/L		84	21 - 196	9	30
Naphthalene			50.0	38.7		ug/L		77	21 - 133	8	30
n-Decane			50.0	41.8		ug/L		84	31 - 93	12	30
n-Docosane			50.0	77.1	*+	ug/L		154	55 - 152	12	30
n-Eicosane			50.0	65.6		ug/L		131	49 - 151	5	30
n-Hexadecane			50.0	55.3		ug/L		111	50 - 127	8	30
Nitrobenzene			50.0	39.5		ug/L		79	35 - 180	13	30
N-Nitrosodimethylamine			50.0	30.8		ug/L		62	38 - 74	12	30
N-Nitrosodi-n-propylamine			50.0	41.3		ug/L		83	10 - 200	16	30
N-Nitrosodiphenylamine			42.5	42.7		ug/L		100	72 - 113	11	30
n-Octadecane			50.0	59.3		ug/L		119	59 - 133	6	30
n-Tetradecane			50.0	54.6		ug/L		109	46 - 113	8	30
Pentachlorophenol			100	85.8		ug/L		86	14 - 176	8	30
Phenanthrene			50.0	48.6		ug/L		97	54 - 120	7	30
Phenol			50.0	20.1		ug/L		40	10 - 120	8	30
Pyrene			50.0	54.7		ug/L		109	52 - 120	14	30
Pyridine			100	45.3		ug/L		45	27 - 52	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*91*		*23 - 140*
2-Fluorobiphenyl (Surr)	*75*		*36 - 101*
2-Fluorophenol (Surr)	*50*		*10 - 77*
Nitrobenzene-d5 (Surr)	*72*		*49 - 106*
Phenol-d5 (Surr)	*34*		*10 - 59*
p-Terphenyl-d14 (Surr)	*112*		*26 - 119*

Lab Sample ID: LCSD 410-182953/5-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 183988
Prep Batch: 182953

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiethylamine			50.0	41.5		ug/L		83	75 - 110	10	30
N-Nitrosodi-n-butylamine			50.0	33.5		ug/L		67	57 - 101	0	30
N-Nitrosopyrrolidine			50.0	38.5		ug/L		77	65 - 112	10	30
o-Toluidine			50.0	34.1		ug/L		68	52 - 82	2	30
Pentachlorobenzene			50.0	31.9		ug/L		64	27 - 108	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*86*		*23 - 140*
2-Fluorobiphenyl (Surr)	*63*		*36 - 101*
2-Fluorophenol (Surr)	*55*		*10 - 77*
Nitrobenzene-d5 (Surr)	*67*		*49 - 106*
Phenol-d5 (Surr)	*37*		*10 - 59*
p-Terphenyl-d14 (Surr)	*101*		*26 - 119*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 410-183339/4
Matrix: Water
Analysis Batch: 183339

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	ND		50	23	ug/L			10/15/21 14:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*95*		*63 - 135*		*10/15/21 14:50*	*1*

Lab Sample ID: LCS 410-183339/5
Matrix: Water
Analysis Batch: 183339

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (1C)			1100	1050		ug/L		96	70 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*89*		*63 - 135*

Lab Sample ID: LCSD 410-183339/6
Matrix: Water
Analysis Batch: 183339

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (1C)			1100	1070		ug/L		97	70 - 123	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*93*		*63 - 135*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-182686/1-A
Matrix: Water
Analysis Batch: 182625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/14/21 09:13	10/14/21 10:17	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/14/21 09:13	10/14/21 10:17	1
Methane (1C)	ND		5.0	3.0	ug/L		10/14/21 09:13	10/14/21 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*97*		*28 - 130*	*10/14/21 09:13*	*10/14/21 10:17*	*1*

Lab Sample ID: LCS 410-182686/2-A
Matrix: Water
Analysis Batch: 182625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182686

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethane (1C)			59.4	58.7		ug/L		99	85 - 115		
Ethene (1C)			60.4	59.1		ug/L		98	83 - 115		
Methane (1C)			59.4	61.8		ug/L		104	85 - 115		

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 410-182686/2-A
Matrix: Water
Analysis Batch: 182625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182686

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Propene (1C)	98		28 - 130

Lab Sample ID: MB 410-183226/1-A
Matrix: Water
Analysis Batch: 183145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/15/21 09:02	10/15/21 09:22	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/15/21 09:02	10/15/21 09:22	1
Methane (1C)	ND		5.0	3.0	ug/L		10/15/21 09:02	10/15/21 09:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Propene (1C)	98		28 - 130	10/15/21 09:02	10/15/21 09:22	1

Lab Sample ID: LCS 410-183226/2-A
Matrix: Water
Analysis Batch: 183145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183226

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethane (1C)			59.4	57.9		ug/L		97	85 - 115		
Ethene (1C)			60.4	57.7		ug/L		96	83 - 115		
Methane (1C)			59.4	56.3		ug/L		95	85 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Propene (1C)	96		28 - 130

Lab Sample ID: LCSD 410-183226/3-A
Matrix: Water
Analysis Batch: 183145

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183226

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane (1C)			59.4	57.3		ug/L		96	85 - 115	1	20
Ethene (1C)			60.4	57.5		ug/L		95	83 - 115	0	20
Methane (1C)			59.4	56.8		ug/L		96	85 - 115	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Propene (1C)	97		28 - 130

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 410-184844/1-A
Matrix: Water
Analysis Batch: 185896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	ND		0.010	0.0050	ug/L		10/20/21 09:46	10/22/21 09:18	1
alpha-BHC (1C)	ND		0.030	0.012	ug/L		10/20/21 09:46	10/22/21 09:18	1
beta-BHC (1C)	ND		0.10	0.046	ug/L		10/20/21 09:46	10/22/21 09:18	1

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: MB 410-184844/1-A
Matrix: Water
Analysis Batch: 185896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane (1C)	ND		0.010	0.0060	ug/L		10/20/21 09:46	10/22/21 09:18	1
delta-BHC (1C)	ND		0.030	0.011	ug/L		10/20/21 09:46	10/22/21 09:18	1
Dieldrin (1C)	ND		0.020	0.0080	ug/L		10/20/21 09:46	10/22/21 09:18	1
Endosulfan I (1C)	ND		0.010	0.0030	ug/L		10/20/21 09:46	10/22/21 09:18	1
Endosulfan II (1C)	ND		0.020	0.0098	ug/L		10/20/21 09:46	10/22/21 09:18	1
Endosulfan sulfate (1C)	ND		0.020	0.010	ug/L		10/20/21 09:46	10/22/21 09:18	1
Endrin (1C)	ND		0.10	0.0090	ug/L		10/20/21 09:46	10/22/21 09:18	1
Endrin aldehyde (1C)	ND		0.020	0.0091	ug/L		10/20/21 09:46	10/22/21 09:18	1
gamma-BHC (Lindane) (1C)	ND		0.010	0.0052	ug/L		10/20/21 09:46	10/22/21 09:18	1
Heptachlor (1C)	ND		0.010	0.0080	ug/L		10/20/21 09:46	10/22/21 09:18	1
Heptachlor epoxide (1C)	ND		0.10	0.0050	ug/L		10/20/21 09:46	10/22/21 09:18	1
4,4'-DDD (1C)	ND		0.020	0.0090	ug/L		10/20/21 09:46	10/22/21 09:18	1
4,4'-DDE (1C)	ND		0.040	0.020	ug/L		10/20/21 09:46	10/22/21 09:18	1
4,4'-DDT (1C)	ND		0.020	0.010	ug/L		10/20/21 09:46	10/22/21 09:18	1
Toxaphene (1C)	ND		1.0	0.36	ug/L		10/20/21 09:46	10/22/21 09:18	1
Chlordane (n.o.s.) (1C)	ND		0.50	0.23	ug/L		10/20/21 09:46	10/22/21 09:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*77*		*32 - 149*	*10/20/21 09:46*	*10/22/21 09:18*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*79*		*32 - 149*	*10/20/21 09:46*	*10/22/21 09:18*	*1*
Tetrachloro-m-xylene (1C)	*66*		*29 - 129*	*10/20/21 09:46*	*10/22/21 09:18*	*1*
Tetrachloro-m-xylene (2C)	*59*		*29 - 129*	*10/20/21 09:46*	*10/22/21 09:18*	*1*

Lab Sample ID: LCS 410-184844/2-A
Matrix: Water
Analysis Batch: 185896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin (1C)	0.101	0.0786		ug/L		78	42 - 140
alpha-BHC (1C)	0.101	0.0906		ug/L		90	37 - 140
beta-BHC (1C)	0.100	0.0998	J	ug/L		100	17 - 140
alpha-Chlordane (1C)	0.100	0.0946		ug/L		95	45 - 147
delta-BHC (1C)	0.100	0.101		ug/L		101	19 - 140
Dieldrin (2C)	0.200	0.200		ug/L		100	36 - 146
Endosulfan I (2C)	0.101	0.0897		ug/L		89	45 - 153
Endosulfan II (1C)	0.201	0.193		ug/L		96	10 - 200
Endosulfan sulfate (2C)	0.201	0.192		ug/L		95	26 - 144
Endrin (1C)	0.200	0.205		ug/L		103	30 - 147
Endrin aldehyde (1C)	0.201	0.164		ug/L		82	60 - 140
gamma-BHC (Lindane) (2C)	0.100	0.0929		ug/L		93	32 - 140
Heptachlor (1C)	0.101	0.0876		ug/L		87	34 - 140
Heptachlor epoxide (1C)	0.100	0.0985	J	ug/L		98	37 - 142
4,4'-DDD (1C)	0.201	0.195		ug/L		97	31 - 141
4,4'-DDE (2C)	0.201	0.177		ug/L		88	30 - 146
4,4'-DDT (1C)	0.201	0.224		ug/L		112	25 - 160

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 410-184844/2-A
Matrix: Water
Analysis Batch: 185896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184844

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	55		32 - 149
DCB Decachlorobiphenyl (Surr) (2C)	57		32 - 149
Tetrachloro-m-xylene (1C)	65		29 - 129
Tetrachloro-m-xylene (2C)	58		29 - 129

Lab Sample ID: LCSD 410-184844/3-A
Matrix: Water
Analysis Batch: 185896

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 184844

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin (2C)	0.101	0.0817		ug/L		81	42 - 140	4	35
alpha-BHC (1C)	0.101	0.0909		ug/L		90	37 - 140	0	36
beta-BHC (1C)	0.100	0.0995	J	ug/L		100	17 - 140	0	44
alpha-Chlordane (2C)	0.100	0.0914		ug/L		91	45 - 147	3	35
delta-BHC (2C)	0.100	0.0979		ug/L		98	19 - 140	3	52
Dieldrin (1C)	0.200	0.202		ug/L		101	36 - 146	1	49
Endosulfan I (2C)	0.101	0.0811		ug/L		80	45 - 153	10	28
Endosulfan II (1C)	0.201	0.187		ug/L		93	10 - 200	3	53
Endosulfan sulfate (2C)	0.201	0.197		ug/L		98	26 - 144	2	38
Endrin (1C)	0.200	0.211		ug/L		106	30 - 147	3	48
Endrin aldehyde (1C)	0.201	0.174		ug/L		87	60 - 140	6	30
gamma-BHC (Lindane) (2C)	0.100	0.0927		ug/L		93	32 - 140	0	39
Heptachlor (1C)	0.101	0.0922		ug/L		91	34 - 140	5	43
Heptachlor epoxide (2C)	0.100	0.0936	J	ug/L		94	37 - 142	5	26
4,4'-DDD (2C)	0.201	0.198		ug/L		98	31 - 141	1	39
4,4'-DDE (2C)	0.201	0.174		ug/L		87	30 - 146	2	35
4,4'-DDT (1C)	0.201	0.236		ug/L		117	25 - 160	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	68		32 - 149
DCB Decachlorobiphenyl (Surr) (2C)	70		32 - 149
Tetrachloro-m-xylene (1C)	64		29 - 129
Tetrachloro-m-xylene (2C)	60		29 - 129

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-184846/1-A
Matrix: Water
Analysis Batch: 185283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	ND		0.50	0.096	ug/L		10/20/21 09:26	10/20/21 21:04	1
PCB-1221 (1C)	ND		0.50	0.21	ug/L		10/20/21 09:26	10/20/21 21:04	1
PCB-1232 (1C)	ND		0.50	0.13	ug/L		10/20/21 09:26	10/20/21 21:04	1
PCB-1242 (1C)	ND		0.50	0.20	ug/L		10/20/21 09:26	10/20/21 21:04	1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 410-184846/1-A
Matrix: Water
Analysis Batch: 185283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248 (1C)	ND		0.50	0.21	ug/L		10/20/21 09:26	10/20/21 21:04	1
PCB-1254 (1C)	ND		0.50	0.16	ug/L		10/20/21 09:26	10/20/21 21:04	1
PCB-1260 (1C)	ND		0.50	0.079	ug/L		10/20/21 09:26	10/20/21 21:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr) (1C)	*80*		*10 - 127*	*10/20/21 09:26*	*10/20/21 21:04*	*1*
DCB Decachlorobiphenyl (Surr) (2C)	*78*		*10 - 127*	*10/20/21 09:26*	*10/20/21 21:04*	*1*
Tetrachloro-m-xylene (Surr) (1C)	*73*		*18 - 115*	*10/20/21 09:26*	*10/20/21 21:04*	*1*
Tetrachloro-m-xylene (Surr) (2C)	*81*		*18 - 115*	*10/20/21 09:26*	*10/20/21 21:04*	*1*

Lab Sample ID: LCS 410-184846/2-A
Matrix: Water
Analysis Batch: 185283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184846

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016 (1C)			5.02	4.47		ug/L		89	50 - 140		
PCB-1260 (1C)			5.04	4.39		ug/L		87	10 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*40*		*10 - 127*
DCB Decachlorobiphenyl (Surr) (2C)	*39*		*10 - 127*
Tetrachloro-m-xylene (Surr) (1C)	*78*		*18 - 115*
Tetrachloro-m-xylene (Surr) (2C)	*85*		*18 - 115*

Lab Sample ID: LCSD 410-184846/3-A
Matrix: Water
Analysis Batch: 185283

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 184846

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016 (1C)			5.02	4.51		ug/L		90	50 - 140	1	36
PCB-1260 (1C)			5.04	4.22		ug/L		84	10 - 140	4	38

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) (1C)	*34*		*10 - 127*
DCB Decachlorobiphenyl (Surr) (2C)	*34*		*10 - 127*
Tetrachloro-m-xylene (Surr) (1C)	*76*		*18 - 115*
Tetrachloro-m-xylene (Surr) (2C)	*83*		*18 - 115*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 410-184707/1-A
Matrix: Water
Analysis Batch: 184783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184707

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	ND		0.20	0.074	mg/L		10/19/21 19:01	10/20/21 00:56	1
>C28-C35 (1C)	ND		0.20	0.074	mg/L		10/19/21 19:01	10/20/21 00:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*78*		*27 - 143*	*10/19/21 19:01*	*10/20/21 00:56*	*1*

Lab Sample ID: LCS 410-184707/2-A
Matrix: Water
Analysis Batch: 184783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184707

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DRO (C10-C28) (1C)			1.60	1.30		mg/L		81	32 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o- terphenyl (Surr) (1C)	*83*		*27 - 143*

Lab Sample ID: LCSD 410-184707/3-A
Matrix: Water
Analysis Batch: 184783

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 184707

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (C10-C28) (1C)			1.60	1.23		mg/L		77	32 - 131	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o- terphenyl (Surr) (1C)	*78*		*27 - 143*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-188356/5
Matrix: Water
Analysis Batch: 188356

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.30	mg/L			10/28/21 14:18	1
Chloride	ND		0.40	0.20	mg/L			10/28/21 14:18	1

Lab Sample ID: LCS 410-188356/3
Matrix: Water
Analysis Batch: 188356

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			7.50	8.14		mg/L		109	90 - 110		
Chloride			3.00	3.20		mg/L		107	90 - 110		

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 410-188356/4
Matrix: Water
Analysis Batch: 188356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate			7.50	7.92		mg/L		106	90 - 110	3	20
Chloride			3.00	3.14		mg/L		105	90 - 110	2	20

Lab Sample ID: MB 410-188399/5
Matrix: Water
Analysis Batch: 188399

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.30	mg/L			10/28/21 15:04	1
Chloride	ND		0.40	0.20	mg/L			10/28/21 15:04	1

Lab Sample ID: LCS 410-188399/3
Matrix: Water
Analysis Batch: 188399

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate			7.50	7.96		mg/L		106	90 - 110
Chloride			3.00	3.19		mg/L		106	90 - 110

Lab Sample ID: LCSD 410-188399/4
Matrix: Water
Analysis Batch: 188399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate			7.50	7.96		mg/L		106	90 - 110	0	20
Chloride			3.00	3.19		mg/L		106	90 - 110	0	20

Lab Sample ID: MB 410-188724/5
Matrix: Water
Analysis Batch: 188724

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.30	mg/L			10/29/21 10:50	1
Chloride	ND		0.40	0.20	mg/L			10/29/21 10:50	1

Lab Sample ID: LCS 410-188724/3
Matrix: Water
Analysis Batch: 188724

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate			7.50	8.07		mg/L		108	90 - 110
Chloride			3.00	3.24		mg/L		108	90 - 110

Lab Sample ID: LCSD 410-188724/4
Matrix: Water
Analysis Batch: 188724

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate			7.50	8.07		mg/L		108	90 - 110	0	20
Chloride			3.00	3.24		mg/L		108	90 - 110	0	20

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-189475/5
Matrix: Water
Analysis Batch: 189475

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.30	mg/L			11/01/21 12:46	1
Chloride	ND		0.40	0.20	mg/L			11/01/21 12:46	1

Lab Sample ID: LCS 410-189475/3
Matrix: Water
Analysis Batch: 189475

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	7.50	7.34		mg/L		98	90 - 110
Chloride	3.00	2.87		mg/L		96	90 - 110

Lab Sample ID: LCSD 410-189475/4
Matrix: Water
Analysis Batch: 189475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	7.50	7.27		mg/L		97	90 - 110	1	20
Chloride	3.00	2.84		mg/L		95	90 - 110	1	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-183566/1-A
Matrix: Water
Analysis Batch: 183690

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 183566

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		10/16/21 05:42	10/17/21 05:18	1
Aluminum	ND		25	20	ug/L		10/16/21 05:42	10/17/21 05:18	1
Arsenic	ND		2.0	0.68	ug/L		10/16/21 05:42	10/17/21 05:18	1
Barium	ND		2.0	0.75	ug/L		10/16/21 05:42	10/17/21 05:18	1
Beryllium	ND		0.50	0.12	ug/L		10/16/21 05:42	10/17/21 05:18	1
Cadmium	ND		0.50	0.15	ug/L		10/16/21 05:42	10/17/21 05:18	1
Calcium	ND		100	74	ug/L		10/16/21 05:42	10/17/21 05:18	1
Chromium	ND		2.0	0.33	ug/L		10/16/21 05:42	10/17/21 05:18	1
Cobalt	ND		0.50	0.16	ug/L		10/16/21 05:42	10/17/21 05:18	1
Copper	ND		1.0	0.36	ug/L		10/16/21 05:42	10/17/21 05:18	1
Iron	ND		50	23	ug/L		10/16/21 05:42	10/17/21 05:18	1
Lead	ND		0.50	0.071	ug/L		10/16/21 05:42	10/17/21 05:18	1
Magnesium	ND		50	10	ug/L		10/16/21 05:42	10/17/21 05:18	1
Manganese	ND		2.0	0.63	ug/L		10/16/21 05:42	10/17/21 05:18	1
Nickel	ND	^3+	1.0	0.60	ug/L		10/16/21 05:42	10/17/21 05:18	1
Potassium	ND		200	110	ug/L		10/16/21 05:42	10/17/21 05:18	1
Selenium	ND		1.0	0.28	ug/L		10/16/21 05:42	10/17/21 05:18	1
Silver	ND		0.50	0.17	ug/L		10/16/21 05:42	10/17/21 05:18	1
Sodium	ND		200	50	ug/L		10/16/21 05:42	10/17/21 05:18	1
Thallium	ND		0.50	0.13	ug/L		10/16/21 05:42	10/17/21 05:18	1
Vanadium	ND		4.0	0.79	ug/L		10/16/21 05:42	10/17/21 05:18	1
Zinc	ND		10	6.2	ug/L		10/16/21 05:42	10/17/21 05:18	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-183566/2-A
Matrix: Water
Analysis Batch: 183690

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 183566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	100	101		ug/L		101	85 - 115
Aluminum	5000	5260		ug/L		105	85 - 115
Arsenic	500	462		ug/L		92	85 - 115
Barium	500	516		ug/L		103	85 - 115
Beryllium	49.9	53.5		ug/L		107	85 - 115
Cadmium	50.0	50.8		ug/L		102	85 - 115
Calcium	5000	5350		ug/L		107	85 - 115
Chromium	500	512		ug/L		103	85 - 115
Cobalt	500	477	E	ug/L		96	85 - 115
Copper	500	477		ug/L		95	85 - 115
Iron	5000	5130		ug/L		103	85 - 115
Lead	50.0	52.0		ug/L		104	85 - 115
Magnesium	5000	5190		ug/L		104	85 - 115
Manganese	500	517		ug/L		103	85 - 115
Nickel	500	479	^3+	ug/L		96	85 - 115
Potassium	5000	5100		ug/L		102	85 - 115
Selenium	100	101		ug/L		101	85 - 115
Silver	49.9	48.6		ug/L		97	85 - 115
Sodium	5000	5160		ug/L		103	85 - 115
Thallium	100	104		ug/L		104	85 - 115
Vanadium	500	513		ug/L		103	85 - 115
Zinc	500	487		ug/L		97	85 - 115

Lab Sample ID: MB 410-183567/1-A
Matrix: Water
Analysis Batch: 183697

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 183567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.41	ug/L		10/16/21 05:47	10/17/21 05:25	1
Aluminum	ND		25	20	ug/L		10/16/21 05:47	10/17/21 05:25	1
Arsenic	ND		2.0	0.68	ug/L		10/16/21 05:47	10/17/21 05:25	1
Barium	ND		2.0	0.75	ug/L		10/16/21 05:47	10/17/21 05:25	1
Beryllium	ND		0.50	0.12	ug/L		10/16/21 05:47	10/17/21 05:25	1
Cadmium	ND		0.50	0.15	ug/L		10/16/21 05:47	10/17/21 05:25	1
Calcium	ND		100	74	ug/L		10/16/21 05:47	10/17/21 05:25	1
Chromium	ND		2.0	0.33	ug/L		10/16/21 05:47	10/17/21 05:25	1
Cobalt	ND		0.50	0.16	ug/L		10/16/21 05:47	10/17/21 05:25	1
Copper	ND		1.0	0.36	ug/L		10/16/21 05:47	10/17/21 05:25	1
Iron	ND		50	23	ug/L		10/16/21 05:47	10/17/21 05:25	1
Lead	ND		0.50	0.071	ug/L		10/16/21 05:47	10/17/21 05:25	1
Magnesium	ND		50	10	ug/L		10/16/21 05:47	10/17/21 05:25	1
Manganese	1.06	J	2.0	0.63	ug/L		10/16/21 05:47	10/17/21 05:25	1
Nickel	ND		1.0	0.60	ug/L		10/16/21 05:47	10/17/21 05:25	1
Potassium	ND		200	110	ug/L		10/16/21 05:47	10/17/21 05:25	1
Selenium	ND		1.0	0.28	ug/L		10/16/21 05:47	10/17/21 05:25	1
Silver	ND		0.50	0.17	ug/L		10/16/21 05:47	10/17/21 05:25	1
Sodium	ND		200	50	ug/L		10/16/21 05:47	10/17/21 05:25	1
Thallium	ND		0.50	0.13	ug/L		10/16/21 05:47	10/17/21 05:25	1
Vanadium	ND		4.0	0.79	ug/L		10/16/21 05:47	10/17/21 05:25	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-183567/1-A
Matrix: Water
Analysis Batch: 183697

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 183567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	6.2	ug/L		10/16/21 05:47	10/17/21 05:25	1

Lab Sample ID: LCS 410-183567/2-A
Matrix: Water
Analysis Batch: 183697

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 183567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	100	97.2		ug/L		97	85 - 115
Aluminum	5000	4850		ug/L		97	85 - 115
Arsenic	500	435		ug/L		87	85 - 115
Barium	500	491		ug/L		98	85 - 115
Beryllium	49.9	49.5		ug/L		99	85 - 115
Cadmium	50.0	49.1		ug/L		98	85 - 115
Calcium	5000	4810		ug/L		96	85 - 115
Chromium	500	473		ug/L		95	85 - 115
Cobalt	500	443		ug/L		89	85 - 115
Copper	500	444		ug/L		89	85 - 115
Iron	5000	4850		ug/L		97	85 - 115
Lead	50.0	49.2		ug/L		98	85 - 115
Magnesium	5000	4820		ug/L		96	85 - 115
Manganese	500	474		ug/L		95	85 - 115
Nickel	500	448		ug/L		90	85 - 115
Potassium	5000	4870		ug/L		97	85 - 115
Selenium	100	97.6		ug/L		98	85 - 115
Silver	49.9	47.5		ug/L		95	85 - 115
Sodium	5000	4830		ug/L		97	85 - 115
Thallium	100	100		ug/L		100	85 - 115
Vanadium	500	482		ug/L		96	85 - 115
Zinc	500	450		ug/L		90	85 - 115

Lab Sample ID: 410-59007-2 MS
Matrix: Surface Water
Analysis Batch: 183697

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total Recoverable
Prep Batch: 183567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		100	103		ug/L		103	70 - 130
Aluminum	80		5000	4660		ug/L		92	70 - 130
Arsenic	2.2		500	452		ug/L		90	70 - 130
Barium	24		500	524		ug/L		100	70 - 130
Beryllium	ND		49.9	42.1		ug/L		84	70 - 130
Cadmium	ND		50.0	47.6		ug/L		95	70 - 130
Chromium	ND		500	447		ug/L		89	70 - 130
Cobalt	0.17	J	500	426		ug/L		85	70 - 130
Copper	2.0		500	401		ug/L		80	70 - 130
Iron	210		5000	4620		ug/L		88	70 - 130
Lead	1.0		50.0	52.0		ug/L		102	70 - 130
Manganese	87	B	500	533		ug/L		89	70 - 130
Nickel	1.5		500	411		ug/L		82	70 - 130
Selenium	1.3		100	105		ug/L		103	70 - 130

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-59007-2 MS
Matrix: Surface Water
Analysis Batch: 183697

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total Recoverable
Prep Batch: 183567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		49.9	44.0		ug/L		88	70 - 130
Thallium	ND		100	103		ug/L		103	70 - 130
Zinc	12		500	437		ug/L		85	70 - 130

Lab Sample ID: 410-59007-2 MS
Matrix: Surface Water
Analysis Batch: 183697

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total Recoverable
Prep Batch: 183567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	280000		5000	278000	4	ug/L		-86	70 - 130
Magnesium	790000		5000	795000	4	ug/L		96	70 - 130
Potassium	240000		5000	243000	4	ug/L		125	70 - 130
Sodium	6700000	^2	5000	6660000	4	ug/L		-151	70 - 130

Lab Sample ID: 410-59007-2 MS
Matrix: Surface Water
Analysis Batch: 184678

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total Recoverable
Prep Batch: 183567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	ND	F1	500	101	F1	ug/L		20	70 - 130

Lab Sample ID: 410-59007-2 DU
Matrix: Surface Water
Analysis Batch: 183697

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total Recoverable
Prep Batch: 183567

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		ug/L		NC	20
Aluminum	80		73.9		ug/L		7	20
Arsenic	2.2		2.28		ug/L		4	20
Barium	24		24.0		ug/L		2	20
Beryllium	ND		ND		ug/L		NC	20
Cadmium	ND		ND		ug/L		NC	20
Chromium	ND		0.498	J	ug/L		NC	20
Cobalt	0.17	J	0.248	J F5	ug/L		37	20
Copper	2.0		2.13		ug/L		7	20
Iron	210		183		ug/L		14	20
Lead	1.0		1.11		ug/L		10	20
Manganese	87	B	87.9		ug/L		0.4	20
Nickel	1.5		1.55		ug/L		4	20
Selenium	1.3		1.18		ug/L		10	20
Silver	ND		ND		ug/L		NC	20
Thallium	ND		0.215	J	ug/L		NC	20
Zinc	12		15.2	F5	ug/L		25	20

Lab Sample ID: 410-59007-2 DU
Matrix: Surface Water
Analysis Batch: 183697

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total Recoverable
Prep Batch: 183567

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	280000		267000		ug/L		6	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-59007-2 DU
Matrix: Surface Water
Analysis Batch: 183697

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total Recoverable
Prep Batch: 183567

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Magnesium	790000		809000		ug/L		2	20
Potassium	240000		245000		ug/L		3	20
Sodium	6700000	^2	6740000		ug/L		1	20

Lab Sample ID: 410-59007-2 DU
Matrix: Surface Water
Analysis Batch: 184678

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total Recoverable
Prep Batch: 183567

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Vanadium	ND	F1	ND		ug/L		NC	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-184260/1-A
Matrix: Water
Analysis Batch: 184688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/19/21 05:24	10/19/21 15:11	1

Lab Sample ID: LCS 410-184260/2-A
Matrix: Water
Analysis Batch: 184688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00100	0.000936		mg/L		94	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-182723/1
Matrix: Water
Analysis Batch: 182723

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			10/14/21 09:56	1

Lab Sample ID: LCS 410-182723/2
Matrix: Water
Analysis Batch: 182723

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	37.10		mg/L		93	78 - 114

Lab Sample ID: LCSD 410-182723/3
Matrix: Water
Analysis Batch: 182723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	37.00		mg/L		92	78 - 114	0	13

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: MB 410-183064/1
Matrix: Water
Analysis Batch: 183064

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			10/14/21 20:42	1

Lab Sample ID: LCS 410-183064/2
Matrix: Water
Analysis Batch: 183064

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	33.60		mg/L		84	78 - 114

Lab Sample ID: LCSD 410-183064/3
Matrix: Water
Analysis Batch: 183064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	37.60		mg/L		94	78 - 114	11	13

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-183047/1
Matrix: Water
Analysis Batch: 183047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			10/14/21 19:45	1

Lab Sample ID: LCS 410-183047/2
Matrix: Water
Analysis Batch: 183047

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Turbidity	10.0	9.55		NTU		96	90 - 104

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-184075/84
Matrix: Water
Analysis Batch: 184075

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			10/15/21 23:50	1

Lab Sample ID: LCS 410-184075/86
Matrix: Water
Analysis Batch: 184075

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	189	164		mg/L		87	82 - 106

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 410-59007-1 MS
Matrix: Groundwater
Analysis Batch: 184075

Client Sample ID: RCS INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	360	F1	189	491	F1	mg/L		67	82 - 106

Lab Sample ID: 410-59007-1 DU
Matrix: Groundwater
Analysis Batch: 184075

Client Sample ID: RCS INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	360	F1	368		mg/L		1	5

Lab Sample ID: 410-59007-2 DU
Matrix: Surface Water
Analysis Batch: 184075

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	100		101		mg/L		0.6	5

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-182919/6
Matrix: Water
Analysis Batch: 182919

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			10/14/21 10:31	1

Lab Sample ID: LCS 410-182919/7
Matrix: Water
Analysis Batch: 182919

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Hardness	40.0	39.8		mg/L		99	91 - 108

Lab Sample ID: 410-59007-1 MS
Matrix: Groundwater
Analysis Batch: 182919

Client Sample ID: RCS INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Hardness	800		400	1190		mg/L		98	91 - 108

Lab Sample ID: 410-59007-1 DU
Matrix: Groundwater
Analysis Batch: 182919

Client Sample ID: RCS INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Hardness	800		788		mg/L		2	7

Method: 2340C-2011 - Hardness, Total (Continued)

Lab Sample ID: MB 410-184276/5
Matrix: Water
Analysis Batch: 184276

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			10/18/21 12:23	1

Lab Sample ID: LCS 410-184276/6
Matrix: Water
Analysis Batch: 184276

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Hardness	40.0	40.5		mg/L		101	91 - 108

Lab Sample ID: 410-59007-2 MS
Matrix: Surface Water
Analysis Batch: 184276

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Hardness	4300	F1	2000	5960	F1	mg/L		83	91 - 108

Lab Sample ID: 410-59007-2 DU
Matrix: Surface Water
Analysis Batch: 184276

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Hardness	4300	F1	4260		mg/L		1	7

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-184076/84
Matrix: Water
Analysis Batch: 184076

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			10/15/21 23:50	1

Lab Sample ID: LCS 410-184076/87
Matrix: Water
Analysis Batch: 184076

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	147	146		umhos/cm		99	97 - 103

Lab Sample ID: 410-59007-1 DU
Matrix: Groundwater
Analysis Batch: 184076

Client Sample ID: RCS INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	3800		3730		umhos/cm		2	5

Method: 2510B-2011 - Conductivity, Specific Conductance (Continued)

Lab Sample ID: 410-59007-2 DU
Matrix: Surface Water
Analysis Batch: 184076

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	29000		29000		umhos/cm		0	5

Method: 2540C-2011 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-183902/1
Matrix: Water
Analysis Batch: 183902

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			10/18/21 08:56	1

Lab Sample ID: LCS 410-183902/2
Matrix: Water
Analysis Batch: 183902

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	200	195		mg/L		97	72 - 127

Method: 2540F-2011 - Solids, Settleable

Lab Sample ID: MB 410-183041/1
Matrix: Water
Analysis Batch: 183041

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			10/14/21 19:05	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-183197/2-A
Matrix: Water
Analysis Batch: 183374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		10/15/21 05:40	10/15/21 12:02	1

Lab Sample ID: LCS 410-183197/1-A
Matrix: Water
Analysis Batch: 183374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	3.96	3.58		mg/L		90	90 - 110

Lab Sample ID: 410-59007-1 MS
Matrix: Groundwater
Analysis Batch: 183374

Client Sample ID: RCS INFLUENT
Prep Type: Total/NA
Prep Batch: 183197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	1.3		5.00	6.38		mg/L		101	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 410-59007-2 MS
Matrix: Surface Water
Analysis Batch: 183374

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA
Prep Batch: 183197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.57	J	5.00	5.62		mg/L		101	90 - 110

Lab Sample ID: 410-59007-1 DU
Matrix: Groundwater
Analysis Batch: 183374

Client Sample ID: RCS INFLUENT
Prep Type: Total/NA
Prep Batch: 183197

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	1.3		1.38		mg/L		4	20

Lab Sample ID: 410-59007-2 DU
Matrix: Surface Water
Analysis Batch: 183374

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA
Prep Batch: 183197

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	0.57	J	0.655	J	mg/L		14	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-183382/2-A
Matrix: Water
Analysis Batch: 183936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		10/15/21 13:51	10/18/21 10:06	1

Lab Sample ID: LCS 410-183382/1-A
Matrix: Water
Analysis Batch: 183936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Phosphorus as PO4	4.07	3.67		mg/L		90	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 410-183241/4
Matrix: Water
Analysis Batch: 183241

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			10/15/21 08:22	1

Lab Sample ID: LCS 410-183241/5
Matrix: Water
Analysis Batch: 183241

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	500	521		mg/L		104	94 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: LCSD 410-183241/6
Matrix: Water
Analysis Batch: 183241

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	500	520		mg/L		104	94 - 110	0	5

Lab Sample ID: MB 410-184272/4
Matrix: Water
Analysis Batch: 184272

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			10/18/21 14:18	1

Lab Sample ID: LCS 410-184272/5
Matrix: Water
Analysis Batch: 184272

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	500	518		mg/L		104	94 - 110

Lab Sample ID: LCSD 410-184272/6
Matrix: Water
Analysis Batch: 184272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	500	519		mg/L		104	94 - 110	0	5

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-182882/19
Matrix: Water
Analysis Batch: 182882

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			10/14/21 11:52	1

Lab Sample ID: LCS 410-182882/17
Matrix: Water
Analysis Batch: 182882

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.250	0.238		mg/L		95	90 - 110

Lab Sample ID: LCSD 410-182882/18
Matrix: Water
Analysis Batch: 182882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.250	0.243		mg/L		97	90 - 110	2	6

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-184077/85
Matrix: Water
Analysis Batch: 184077

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		S.U.		101	95 - 105		

Lab Sample ID: 410-59007-1 DU
Matrix: Groundwater
Analysis Batch: 184077

Client Sample ID: RCS INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.5	HF		7.6		S.U.				0.4	4
Temperature	23.6	HF		23.6		Degrees C				0.3	4

Lab Sample ID: 410-59007-2 DU
Matrix: Surface Water
Analysis Batch: 184077

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.4	HF		7.5		S.U.				0.8	4
Temperature	23.7	HF		23.7		Degrees C				0.2	4

Method: 5210 B-2011 - BOD, 5-Day

Lab Sample ID: SCB 410-184687/4
Matrix: Water
Analysis Batch: 184687

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.852		0.0000010	0.0000010	mg/L			10/14/21 10:22	1

Lab Sample ID: USB 410-184687/2
Matrix: Water
Analysis Batch: 184687

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.113		0.0000010	0.0000010	mg/L			10/14/21 10:22	1

Lab Sample ID: LCS 410-184687/27
Matrix: Water
Analysis Batch: 184687

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Biochemical Oxygen Demand			198	201		mg/L		101	85 - 115		

Lab Sample ID: SCB 410-185036/4
Matrix: Water
Analysis Batch: 185036

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.679		0.0000010	0.0000010	mg/L			10/14/21 18:25	1

Method: 5210 B-2011 - BOD, 5-Day (Continued)

Lab Sample ID: USB 410-185036/2
Matrix: Water
Analysis Batch: 185036

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.153		0.0000010	0.0000010	mg/L			10/14/21 18:25	1

Lab Sample ID: LCS 410-185036/5
Matrix: Water
Analysis Batch: 185036

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	197		mg/L		100	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 460-808124/1
Matrix: Water
Analysis Batch: 808124

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2.5	2.5	mg/L			10/20/21 07:57	1

Lab Sample ID: LCSSRM 460-808124/2
Matrix: Water
Analysis Batch: 808124

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	88.7	82.0		mg/L		92.4	82.2 - 110.9

GC/MS VOA

Analysis Batch: 183198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	8260C	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	8260C	
MB 410-183198/6	Method Blank	Total/NA	Water	8260C	
LCS 410-183198/4	Lab Control Sample	Total/NA	Water	8260C	
410-59007-1 MS	RCS INFLUENT	Total/NA	Groundwater	8260C	
410-59007-1 MSD	RCS INFLUENT	Total/NA	Groundwater	8260C	

Analysis Batch: 183303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	624.1	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	624.1	
410-59007-3	QAQC_TB	Total/NA	Water	624.1	
MB 410-183303/5	Method Blank	Total/NA	Water	624.1	
LCS 410-183303/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-183303/1004	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 183593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1 - DL	RCS INFLUENT	Total/NA	Groundwater	624.1	
MB 410-183593/5	Method Blank	Total/NA	Water	624.1	
LCS 410-183593/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-183593/1004	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 184909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-3	QAQC_TB	Total/NA	Water	8260C	
MB 410-184909/6	Method Blank	Total/NA	Water	8260C	
LCS 410-184909/4	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 182953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	625.1	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	625.1	
MB 410-182953/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-182953/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCS 410-182953/4-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-182953/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
LCSD 410-182953/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 183988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	625.1	182953
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	625.1	182953
MB 410-182953/1-A	Method Blank	Total/NA	Water	625.1	182953
LCS 410-182953/2-A	Lab Control Sample	Total/NA	Water	625.1	182953
LCS 410-182953/4-A	Lab Control Sample	Total/NA	Water	625.1	182953
LCSD 410-182953/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	182953
LCSD 410-182953/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	182953

GC VOA

Analysis Batch: 182625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	RSK-175	182686
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	RSK-175	182686
MB 410-182686/1-A	Method Blank	Total/NA	Water	RSK-175	182686
LCS 410-182686/2-A	Lab Control Sample	Total/NA	Water	RSK-175	182686

Prep Batch: 182686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	RSK-175	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	RSK-175	
MB 410-182686/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-182686/2-A	Lab Control Sample	Total/NA	Water	RSK-175	

Analysis Batch: 183145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1 - DL	RCS INFLUENT	Total/NA	Groundwater	RSK-175	183226
MB 410-183226/1-A	Method Blank	Total/NA	Water	RSK-175	183226
LCS 410-183226/2-A	Lab Control Sample	Total/NA	Water	RSK-175	183226
LCSD 410-183226/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	183226

Prep Batch: 183226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1 - DL	RCS INFLUENT	Total/NA	Groundwater	RSK-175	
MB 410-183226/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-183226/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-183226/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 183339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	8015C	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	8015C	
MB 410-183339/4	Method Blank	Total/NA	Water	8015C	
LCS 410-183339/5	Lab Control Sample	Total/NA	Water	8015C	
LCSD 410-183339/6	Lab Control Sample Dup	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 184707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	3510C	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	3510C	
MB 410-184707/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-184707/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-184707/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 184783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	8015C	184707
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	8015C	184707
MB 410-184707/1-A	Method Blank	Total/NA	Water	8015C	184707
LCS 410-184707/2-A	Lab Control Sample	Total/NA	Water	8015C	184707
LCSD 410-184707/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	184707

GC Semi VOA

Prep Batch: 184844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	608.3	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	608.3	
MB 410-184844/1-A	Method Blank	Total/NA	Water	608.3	
LCS 410-184844/2-A	Lab Control Sample	Total/NA	Water	608.3	
LCSD 410-184844/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	

Prep Batch: 184846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	608.3	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	608.3	
MB 410-184846/1-A	Method Blank	Total/NA	Water	608.3	
LCS 410-184846/2-A	Lab Control Sample	Total/NA	Water	608.3	
LCSD 410-184846/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	

Analysis Batch: 185283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	608.3	184846
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	608.3	184846
MB 410-184846/1-A	Method Blank	Total/NA	Water	608.3	184846
LCS 410-184846/2-A	Lab Control Sample	Total/NA	Water	608.3	184846
LCSD 410-184846/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	184846

Analysis Batch: 185896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	608.3	184844
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	608.3	184844
MB 410-184844/1-A	Method Blank	Total/NA	Water	608.3	184844
LCS 410-184844/2-A	Lab Control Sample	Total/NA	Water	608.3	184844
LCSD 410-184844/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	184844

HPLC/IC

Analysis Batch: 188356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 410-188356/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-188356/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-188356/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 188399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-188399/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-188399/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-188399/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 188724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 410-188724/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-188724/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

HPLC/IC (Continued)

Analysis Batch: 188724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-188724/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 189475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-189475/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-189475/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-189475/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 183566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	
MB 410-183566/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-183566/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Prep Batch: 183567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-2	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	
MB 410-183567/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-183567/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	
410-59007-2 MS	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	
410-59007-2 DU	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	

Analysis Batch: 183690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	183566
410-59007-1	RCS INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	183566
410-59007-1	RCS INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	183566
MB 410-183566/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	183566
LCS 410-183566/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	183566

Analysis Batch: 183697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-2	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	183567
410-59007-2	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	183567
MB 410-183567/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	183567
LCS 410-183567/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	183567
410-59007-2 MS	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	183567
410-59007-2 MS	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	183567
410-59007-2 DU	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	183567
410-59007-2 DU	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	183567

Prep Batch: 184260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	245.1	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	245.1	
MB 410-184260/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-184260/2-A	Lab Control Sample	Total/NA	Water	245.1	

Metals

Analysis Batch: 184678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-2	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	183567
410-59007-2 MS	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	183567
410-59007-2 DU	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	183567

Analysis Batch: 184688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	245.1	184260
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	245.1	184260
MB 410-184260/1-A	Method Blank	Total/NA	Water	245.1	184260
LCS 410-184260/2-A	Lab Control Sample	Total/NA	Water	245.1	184260

Analysis Batch: 184709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	183566

General Chemistry

Analysis Batch: 178712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	SM 2330B	

Analysis Batch: 182723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	1664A	
MB 410-182723/1	Method Blank	Total/NA	Water	1664A	
LCS 410-182723/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-182723/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 182882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	420.4	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	420.4	
MB 410-182882/19	Method Blank	Total/NA	Water	420.4	
LCS 410-182882/17	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-182882/18	Lab Control Sample Dup	Total/NA	Water	420.4	

Analysis Batch: 182919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	2340C-2011	
MB 410-182919/6	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-182919/7	Lab Control Sample	Total/NA	Water	2340C-2011	
410-59007-1 MS	RCS INFLUENT	Total/NA	Groundwater	2340C-2011	
410-59007-1 DU	RCS INFLUENT	Total/NA	Groundwater	2340C-2011	

Analysis Batch: 183041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	2540F-2011	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	2540F-2011	
MB 410-183041/1	Method Blank	Total/NA	Water	2540F-2011	

General Chemistry

Analysis Batch: 183047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	180.1	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	180.1	
MB 410-183047/1	Method Blank	Total/NA	Water	180.1	
LCS 410-183047/2	Lab Control Sample	Total/NA	Water	180.1	

Analysis Batch: 183064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	1664A	
MB 410-183064/1	Method Blank	Total/NA	Water	1664A	
LCS 410-183064/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-183064/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Prep Batch: 183197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	351.2	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	351.2	
MB 410-183197/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-183197/1-A	Lab Control Sample	Total/NA	Water	351.2	
410-59007-1 MS	RCS INFLUENT	Total/NA	Groundwater	351.2	
410-59007-2 MS	RECEIVING-WATER-001	Total/NA	Surface Water	351.2	
410-59007-1 DU	RCS INFLUENT	Total/NA	Groundwater	351.2	
410-59007-2 DU	RECEIVING-WATER-001	Total/NA	Surface Water	351.2	

Analysis Batch: 183241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	410.4	
MB 410-183241/4	Method Blank	Total/NA	Water	410.4	
LCS 410-183241/5	Lab Control Sample	Total/NA	Water	410.4	
LCSD 410-183241/6	Lab Control Sample Dup	Total/NA	Water	410.4	

Analysis Batch: 183374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	351.2	183197
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	351.2	183197
MB 410-183197/2-A	Method Blank	Total/NA	Water	351.2	183197
LCS 410-183197/1-A	Lab Control Sample	Total/NA	Water	351.2	183197
410-59007-1 MS	RCS INFLUENT	Total/NA	Groundwater	351.2	183197
410-59007-2 MS	RECEIVING-WATER-001	Total/NA	Surface Water	351.2	183197
410-59007-1 DU	RCS INFLUENT	Total/NA	Groundwater	351.2	183197
410-59007-2 DU	RECEIVING-WATER-001	Total/NA	Surface Water	351.2	183197

Prep Batch: 183382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	365.1	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	365.1	
MB 410-183382/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-183382/1-A	Lab Control Sample	Total/NA	Water	365.1	

Analysis Batch: 183902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	2540C-2011	

General Chemistry (Continued)

Analysis Batch: 183902 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	2540C-2011	
MB 410-183902/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 410-183902/2	Lab Control Sample	Total/NA	Water	2540C-2011	

Analysis Batch: 183936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	365.1	183382
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	365.1	183382
MB 410-183382/2-A	Method Blank	Total/NA	Water	365.1	183382
LCS 410-183382/1-A	Lab Control Sample	Total/NA	Water	365.1	183382

Analysis Batch: 184075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	2320B-2011	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	2320B-2011	
MB 410-184075/84	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-184075/86	Lab Control Sample	Total/NA	Water	2320B-2011	
410-59007-1 MS	RCS INFLUENT	Total/NA	Groundwater	2320B-2011	
410-59007-1 DU	RCS INFLUENT	Total/NA	Groundwater	2320B-2011	
410-59007-2 DU	RECEIVING-WATER-001	Total/NA	Surface Water	2320B-2011	

Analysis Batch: 184076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	2510B-2011	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	2510B-2011	
MB 410-184076/84	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-184076/87	Lab Control Sample	Total/NA	Water	2510B-2011	
410-59007-1 DU	RCS INFLUENT	Total/NA	Groundwater	2510B-2011	
410-59007-2 DU	RECEIVING-WATER-001	Total/NA	Surface Water	2510B-2011	

Analysis Batch: 184077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	4500 H+ B-2011	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	4500 H+ B-2011	
LCS 410-184077/85	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	
410-59007-1 DU	RCS INFLUENT	Total/NA	Groundwater	4500 H+ B-2011	
410-59007-2 DU	RECEIVING-WATER-001	Total/NA	Surface Water	4500 H+ B-2011	

Analysis Batch: 184272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	410.4	
MB 410-184272/4	Method Blank	Total/NA	Water	410.4	
LCS 410-184272/5	Lab Control Sample	Total/NA	Water	410.4	
LCSD 410-184272/6	Lab Control Sample Dup	Total/NA	Water	410.4	

Analysis Batch: 184276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	2340C-2011	
MB 410-184276/5	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-184276/6	Lab Control Sample	Total/NA	Water	2340C-2011	
410-59007-2 MS	RECEIVING-WATER-001	Total/NA	Surface Water	2340C-2011	

General Chemistry (Continued)

Analysis Batch: 184276 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-2 DU	RECEIVING-WATER-001	Total/NA	Surface Water	2340C-2011	

Analysis Batch: 184278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	353.2	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	353.2	

Analysis Batch: 184687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	5210 B-2011	
SCB 410-184687/4	Method Blank	Total/NA	Water	5210 B-2011	
USB 410-184687/2	Method Blank	Total/NA	Water	5210 B-2011	
LCS 410-184687/27	Lab Control Sample	Total/NA	Water	5210 B-2011	

Analysis Batch: 185036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	5210 B-2011	
SCB 410-185036/4	Method Blank	Total/NA	Water	5210 B-2011	
USB 410-185036/2	Method Blank	Total/NA	Water	5210 B-2011	
LCS 410-185036/5	Lab Control Sample	Total/NA	Water	5210 B-2011	

Analysis Batch: 808124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-59007-1	RCS INFLUENT	Total/NA	Groundwater	SM 2540D	
410-59007-2	RECEIVING-WATER-001	Total/NA	Surface Water	SM 2540D	
MB 460-808124/1	Method Blank	Total/NA	Water	SM 2540D	
LCSSRM 460-808124/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59007-1
Project/Site: EMGPRP-31097

Client Sample ID: RCS INFLUENT
Lab Sample ID: 410-59007-1
Date Collected: 10/13/21 09:15
Matrix: Groundwater
Date Received: 10/13/21 21:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	183303	10/15/21 15:48	UJML	ELLE
Total/NA	Analysis	624.1	DL	10	183593	10/16/21 14:26	UJML	ELLE
Total/NA	Analysis	8260C		1	183198	10/15/21 13:05	TQ4J	ELLE
Total/NA	Prep	625.1			182953	10/14/21 17:30	QQ3P	ELLE
Total/NA	Analysis	625.1		1	183988	10/18/21 17:30	SJ89	ELLE
Total/NA	Analysis	8015C		1	183339	10/15/21 18:21	JJT8	ELLE
Total/NA	Prep	RSK-175	DL		183226	10/15/21 09:02	LXF2	ELLE
Total/NA	Analysis	RSK-175	DL	10	183145	10/15/21 10:59	LXF2	ELLE
Total/NA	Prep	RSK-175			182686	10/14/21 09:13	LXF2	ELLE
Total/NA	Analysis	RSK-175		1	182625	10/14/21 15:54	LXF2	ELLE
Total/NA	Prep	608.3			184846	10/20/21 09:26	BLX5	ELLE
Total/NA	Analysis	608.3		1	185283	10/20/21 21:16	E9VJ	ELLE
Total/NA	Prep	608.3			184844	10/20/21 09:46	BLX5	ELLE
Total/NA	Analysis	608.3		1	185896	10/22/21 10:55	WN7O	ELLE
Total/NA	Prep	3510C			184707	10/19/21 19:01	FTV5	ELLE
Total/NA	Analysis	8015C		1	184783	10/20/21 02:02	KP5X	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		500	189475	11/01/21 16:35	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	188399	10/28/21 15:54	GJ35	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183566	10/16/21 05:42	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	183690	10/17/21 05:50	UCIG	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183566	10/16/21 05:42	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		5	183690	10/17/21 06:54	UCIG	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183566	10/16/21 05:42	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		10	183690	10/17/21 06:56	UCIG	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183566	10/16/21 05:42	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	184709	10/19/21 18:40	UCIG	ELLE
Total/NA	Prep	245.1			184260	10/19/21 05:24	UAMX	ELLE
Total/NA	Analysis	245.1		1	184688	10/19/21 15:30	UEFS	ELLE
Total/NA	Analysis	1664A		1	183064	10/14/21 20:42	QT6L	ELLE
Total/NA	Analysis	180.1		2	183047	10/14/21 19:45	DI9Q	ELLE
Total/NA	Analysis	2320B-2011		1	184075	10/16/21 00:09	DI9Q	ELLE
Total/NA	Analysis	2340C-2011		10	182919	10/14/21 11:02	USAE	ELLE
Total/NA	Analysis	2510B-2011		1	184076	10/16/21 00:09	DI9Q	ELLE
Total/NA	Analysis	2540C-2011		1	183902	10/18/21 08:56	M98K	ELLE
Total/NA	Analysis	2540F-2011		1	183041	10/14/21 19:05	DI9Q	ELLE
Total/NA	Prep	351.2			183197	10/15/21 05:40	UNJS	ELLE
Total/NA	Analysis	351.2		1	183374	10/15/21 12:08	JCG7	ELLE
Total/NA	Analysis	353.2		1	184278	10/19/21 07:03	USJM	ELLE
Total/NA	Prep	365.1			183382	10/15/21 13:51	F8AU	ELLE
Total/NA	Analysis	365.1		1	183936	10/18/21 10:10	MFV9	ELLE
Total/NA	Analysis	410.4		1	183241	10/15/21 08:31	USAE	ELLE
Total/NA	Analysis	420.4		1	182882	10/14/21 12:25	P684	ELLE

Client Sample ID: RCS INFLUENT

Lab Sample ID: 410-59007-1

Date Collected: 10/13/21 09:15

Matrix: Groundwater

Date Received: 10/13/21 21:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 H+ B-2011		1	184077	10/16/21 00:09	DI9Q	ELLE
Total/NA	Analysis	5210 B-2011		1	184687	10/14/21 18:25	F8TI	ELLE
Total/NA	Analysis	SM 2330B		1	178712	10/14/21 05:01	USJM	ELLE
Total/NA	Analysis	SM 2540D		1	808124	10/20/21 07:57	AAP	TAL EDI

Client Sample ID: RECEIVING-WATER-001

Lab Sample ID: 410-59007-2

Date Collected: 10/13/21 10:20

Matrix: Surface Water

Date Received: 10/13/21 21:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	183303	10/15/21 16:10	UJML	ELLE
Total/NA	Analysis	8260C		1	183198	10/15/21 14:04	TQ4J	ELLE
Total/NA	Prep	625.1			182953	10/14/21 17:30	QQ3P	ELLE
Total/NA	Analysis	625.1		1	183988	10/18/21 17:49	SJ89	ELLE
Total/NA	Analysis	8015C		1	183339	10/15/21 18:45	JJT8	ELLE
Total/NA	Prep	RSK-175			182686	10/14/21 09:13	LXF2	ELLE
Total/NA	Analysis	RSK-175		1	182625	10/14/21 16:13	LXF2	ELLE
Total/NA	Prep	608.3			184846	10/20/21 09:26	BLX5	ELLE
Total/NA	Analysis	608.3		1	185283	10/20/21 21:28	E9VJ	ELLE
Total/NA	Prep	608.3			184844	10/20/21 09:46	BLX5	ELLE
Total/NA	Analysis	608.3		1	185896	10/22/21 11:08	WN7O	ELLE
Total/NA	Prep	3510C			184707	10/19/21 19:01	FTV5	ELLE
Total/NA	Analysis	8015C		1	184783	10/20/21 02:24	KP5X	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		1000	188356	10/28/21 15:34	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5000	188724	10/29/21 12:34	GJ35	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183567	10/16/21 05:47	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	183697	10/17/21 05:33	UCIG	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183567	10/16/21 05:47	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		100	183697	10/17/21 06:55	UCIG	ELLE
Total Recoverable	Prep	200.8 Rev 5.4			183567	10/16/21 05:47	UAMX	ELLE
Total Recoverable	Analysis	200.8 Rev 5.4		1	184678	10/19/21 17:03	UCIG	ELLE
Total/NA	Prep	245.1			184260	10/19/21 05:24	UAMX	ELLE
Total/NA	Analysis	245.1		1	184688	10/19/21 15:32	UEFS	ELLE
Total/NA	Analysis	1664A		1	182723	10/14/21 09:56	UYB0	ELLE
Total/NA	Analysis	180.1		1	183047	10/14/21 19:45	DI9Q	ELLE
Total/NA	Analysis	2320B-2011		1	184075	10/16/21 00:29	DI9Q	ELLE
Total/NA	Analysis	2340C-2011		50	184276	10/18/21 12:38	USAE	ELLE
Total/NA	Analysis	2510B-2011		1	184076	10/16/21 00:29	DI9Q	ELLE
Total/NA	Analysis	2540C-2011		1	183902	10/18/21 08:56	M98K	ELLE
Total/NA	Analysis	2540F-2011		1	183041	10/14/21 19:05	DI9Q	ELLE
Total/NA	Prep	351.2			183197	10/15/21 05:40	UNJS	ELLE
Total/NA	Analysis	351.2		1	183374	10/15/21 13:08	JCG7	ELLE
Total/NA	Analysis	353.2		1	184278	10/19/21 07:03	USJM	ELLE

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-59007-1

Client Sample ID: RECEIVING-WATER-001

Lab Sample ID: 410-59007-2

Date Collected: 10/13/21 10:20

Matrix: Surface Water

Date Received: 10/13/21 21:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	365.1			183382	10/15/21 13:51	F8AU	ELLE
Total/NA	Analysis	365.1		1	183936	10/18/21 10:11	MFV9	ELLE
Total/NA	Analysis	410.4		10	184272	10/18/21 14:31	USAE	ELLE
Total/NA	Analysis	420.4		5	182882	10/14/21 13:17	P684	ELLE
Total/NA	Analysis	4500 H+ B-2011		1	184077	10/16/21 00:29	DI9Q	ELLE
Total/NA	Analysis	5210 B-2011		1	185036	10/14/21 20:26	F8TI	ELLE
Total/NA	Analysis	SM 2540D		1	808124	10/20/21 07:57	AAP	TAL EDI

Client Sample ID: QAQC_TB

Lab Sample ID: 410-59007-3

Date Collected: 10/06/21 00:00

Matrix: Water

Date Received: 10/13/21 21:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	183303	10/15/21 14:43	UJML	ELLE
Total/NA	Analysis	8260C		1	184909	10/20/21 12:11	TQ4J	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59007-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-22

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
365.1	365.1	Groundwater	Total Phosphorus as PO4
365.1	365.1	Surface Water	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
4500 H+ B-2011		Surface Water	pH
4500 H+ B-2011		Surface Water	Temperature
608.3	608.3	Groundwater	alpha-Chlordane (1C)
608.3	608.3	Groundwater	Chlordane (n.o.s.) (1C)
608.3	608.3	Surface Water	alpha-Chlordane (1C)
608.3	608.3	Surface Water	Chlordane (n.o.s.) (1C)
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl acetate
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59007-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	Methyl iodide
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane
624.1		Groundwater	n-Propyl acetate
624.1		Groundwater	N-Propylbenzene
624.1		Groundwater	p-Isopropyltoluene
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Surface Water	1,1,1,2-Tetrachloroethane
624.1		Surface Water	1,1-Dichloropropene
624.1		Surface Water	1,2,3-Trichlorobenzene
624.1		Surface Water	1,2,3-Trichloropropane
624.1		Surface Water	1,2,4-Trichlorobenzene
624.1		Surface Water	1,2,4-Trimethylbenzene
624.1		Surface Water	1,2-Dibromo-3-Chloropropane
624.1		Surface Water	1,2-Dibromoethane
624.1		Surface Water	1,2-Dichloroethene (total)
624.1		Surface Water	1,3,5-Trimethylbenzene
624.1		Surface Water	1,3-Dichloropropane
624.1		Surface Water	1,4-Dioxane
624.1		Surface Water	2,2-Dichloropropane
624.1		Surface Water	2-Chloro-1,3-butadiene
624.1		Surface Water	2-Chlorotoluene
624.1		Surface Water	2-Hexanone
624.1		Surface Water	2-Propanol
624.1		Surface Water	4-Chlorotoluene
624.1		Surface Water	Benzyl chloride
624.1		Surface Water	Bromobenzene
624.1		Surface Water	Butyl acetate
624.1		Surface Water	Carbon disulfide
624.1		Surface Water	Cyclohexane
624.1		Surface Water	Dibromomethane
624.1		Surface Water	Dichlorofluoromethane
624.1		Surface Water	di-Isopropyl ether
624.1		Surface Water	Ethyl acetate
624.1		Surface Water	Ethyl methacrylate
624.1		Surface Water	Ethyl t-butyl ether
624.1		Surface Water	Freon 123a
624.1		Surface Water	Hexachlorobutadiene
624.1		Surface Water	Isobutyl alcohol
624.1		Surface Water	Isopropyl acetate
624.1		Surface Water	Isopropylbenzene

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Surface Water	Methacrylonitrile
624.1		Surface Water	Methyl iodide
624.1		Surface Water	Methyl methacrylate
624.1		Surface Water	n-Butylbenzene
624.1		Surface Water	n-Heptane
624.1		Surface Water	n-Hexane
624.1		Surface Water	n-Propyl acetate
624.1		Surface Water	N-Propylbenzene
624.1		Surface Water	p-Isopropyltoluene
624.1		Surface Water	Propionitrile
624.1		Surface Water	sec-Butylbenzene
624.1		Surface Water	t-Amyl methyl ether
624.1		Surface Water	tert-Butylbenzene
624.1		Surface Water	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl acetate
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Methylnaphthalene
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Methylphenol
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
625.1	625.1	Surface Water	1,1'-Biphenyl
625.1	625.1	Surface Water	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Surface Water	1,2-Dichlorobenzene

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59007-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
625.1	625.1	Surface Water	1,3-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dioxane
625.1	625.1	Surface Water	1-Methylnaphthalene
625.1	625.1	Surface Water	1-Methylphenanthrene
625.1	625.1	Surface Water	2,3,4,6-Tetrachlorophenol
625.1	625.1	Surface Water	2,6-Dichlorophenol
625.1	625.1	Surface Water	2-Methylnaphthalene
625.1	625.1	Surface Water	2-Nitroaniline
625.1	625.1	Surface Water	3-Nitroaniline
625.1	625.1	Surface Water	4-Chloroaniline
625.1	625.1	Surface Water	4-Methylphenol
625.1	625.1	Surface Water	4-Nitroaniline
625.1	625.1	Surface Water	Benzoic acid
625.1	625.1	Surface Water	Benzyl alcohol
625.1	625.1	Surface Water	Dibenzofuran
625.1	625.1	Surface Water	Diphenyl ether
625.1	625.1	Surface Water	n-Docosane
625.1	625.1	Surface Water	n-Eicosane
625.1	625.1	Surface Water	n-Hexadecane
625.1	625.1	Surface Water	N-Nitrosodiethylamine
625.1	625.1	Surface Water	N-Nitrosodi-n-butylamine
625.1	625.1	Surface Water	N-Nitrosopyrrolidine
625.1	625.1	Surface Water	n-Tetradecane
625.1	625.1	Surface Water	o-Toluidine
625.1	625.1	Surface Water	Pentachlorobenzene
8015C	3510C	Groundwater	>C28-C35 (1C)
8015C	3510C	Surface Water	>C28-C35 (1C)
SM 2330B		Groundwater	Langelier Index

Laboratory: Eurofins TestAmerica, Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59007-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
608.3	Organochlorine Pesticides in Water	40CFR136A	ELLE
608.3	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	MCAWW	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C-2011	Solids, Total Dissolved (TDS)	SM	ELLE
2540F-2011	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	MCAWW	ELLE
420.4	Phenolics, Total Recoverable	MCAWW	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2011	BOD, 5-Day	SM	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL EDI
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
608.3	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater ", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-59007-1
Project/Site: EMGPRP-31097

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-59007-1	RCS INFLUENT	Groundwater	10/13/21 09:15	10/13/21 21:47
410-59007-2	RECEIVING-WATER-001	Surface Water	10/13/21 10:20	10/13/21 21:47
410-59007-3	QAQC_TB	Water	10/06/21 00:00	10/13/21 21:47

410-59007 Chain of Custody

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13438 Group # _____ Sample # _____

EMES-Eurofins Agreement # A2604415

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.		
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097
Consultant PM:	Courtney Lind	P.O. #: 0172 0030Y070	WAL# 4728
Sampler:	DK, NK	XOM PM:	Elaine Lamm
Bill to:	☐ XOM ☑ Consultant		
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐

Matrix: Soil ☐ Sediment ☐ Tissue ☐ | Water: Potable ☐ Ground ☐ Surface ☐ NPDES ☐ | Other: Trip Blank

Analyses Requested — Preservation and Filtration Codes

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Sediment	Tissue	Potable	Ground	Surface	NPDES	Other	Trip Blank	Total # of Containers	VOCs (624.1) MEK, Acetone, MTBE (H)	200.8, 245.1 (N)	625.1_PREC - (MOD) Priority Pollutants SVOCs	608.3_PCB_PREC, 608.3_Pest_PREC	300_ORGFM_28D - (MOD) Chloride/Sulfate	SM5210B_Calc - BOD, 5-Day Only	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved (S)	351.2, 365.1, 410.4 (S)	2320B, 2510B 2540C_SingleDry.	420.4 - Phenols (S)	353.2_Nitrite - Nitrogen, Nitrite	2540D_Single_Dry - TSS	SM2540F - Settleable Solids	Turbidity (180.1)	SM2330B - Local Method	2340C - Local Method (N)	Oil&Grease (1664A) (H)	RSK_175 Methane Ethane Ethene (H)	8015C TPH-DRO/ORO Standard TPH-DRO/ORO (H)	TPH-GRO (8015) #10598 (H)	Remarks
RCS INFLUENT	10/13/2021	9:15	X					X						33	6	1	2	1	1	1	1	2	2	1	1	1	1	1	1	2	2	2	3	
RECEIVING-WATER-001	10/13/2021	10:20	X						X					33	6	1	2	1	1	1	1	2	2	1	1	1	1	1	1	2	2	2	3	
QAQC_TB	10/6/2021											X		2	2																			

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): 5 day 4day 72hour 48hour 24hour

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	OTHER	
Type III (Reduced non-CLP/NJ Reduced)	☐	Standard with QC summary	
TX TRRP-13	☐		
NJ DKQP	☐		
NYSDEC Category	☐ A ☐ B		

EDD Format(s) Needed: EQuIS and Excel

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature] BS	10/13/2021	16:30	[signature]	10/13/21	1630
2	[signature]	10/13/21	21:15			
3						
4						
5				[signature]	10/13/21	21:47

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.4-1.9 °C

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Moeller, Megan	Carrier Tracking No(s):	COC No: 410-1010944.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Megan.Moeller@eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 410-59007-1
Address: 777 New Durham Road, ,	Due Date Requested: 10/26/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: EMGPRP-31097	Project #: 41000909			
Site: EMGPRP	SSOW#:			

Analysis Requested

Preservation Codes:

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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D/ Solids, Total Suspended (TSS)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RCS INFLUENT (410-59007-1)	10/13/21	09:15 Eastern		Water			X	1	
RECEIVING-WATER-001 (410-59007-2)	10/13/21	10:20 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Lancaster Laboratories Env places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Lancaster Laboratories Env laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Lancaster Laboratories Env attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Lancaster Laboratories Env.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10-14-2021 1611	Eccc	[signature]	10/15/21 10:00	Eccc
2	[signature]	10/15/21 1653	Eccc	[signature]	10/15/21	
3						

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

Cooler Temperature(s) °C and Other Remarks: 1.9 3.5 3.0°C 1.6 1.1

Ver: 06/08/2021

11/2/2021

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-59007-1

Login Number: 59007

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Phillips, Ann-Marie E

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-59007-1

Login Number: 59007
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 10/19/21 11:10 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	1.1, 3.0°C IR9
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-103228-1
Client Project/Site: EMGPRP-31097

For:
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Attn: Matthew Mueller

Authorized for release by:
11/6/2022 8:52:45 AM

Megan Moeller, Client Services Manager
(717)556-7261
Megan.Moeller@et.eurofinsus.com

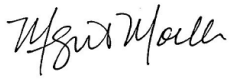
Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



Megan Moeller
Client Services Manager
11/6/2022 8:52:45 AM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
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
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-103228-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-103228-1

Receipt
The samples were received on 10/25/2022 8:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 20 coolers at receipt time were -0.2°C, 0.2°C, 0.3°C, 0.3°C, 0.3°C, 1.2°C, 1.5°C, 2.4°C, 2.4°C, 2.7°C, 3.0°C, 3.0°C, 3.2°C, 3.7°C, 4.6°C, 5.1°C, 5.2°C, 5.2°C, 5.4°C and 5.5°C

GC/MS VOA
Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following sample was received preserved with hydrochloric acid: ORS-EFFLUENT (410-103228-1). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile , which are acid-labile compounds that degrade in an acidic medium.

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

GC/MS Semi VOA
Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 410-312567 recovered above the upper control limit for 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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

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

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

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

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103228-1

Client Sample ID: ORS-EFFLUENT

Lab Sample ID: 410-103228-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.2		1.0	0.30	ug/L	1		624.1	Total/NA
1,2-Dichloroethene (total)	1.6		1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	1.6		1.0	0.20	ug/L	1		624.1	Total/NA
Tetrachloroethene	1.4		1.0	0.30	ug/L	1		624.1	Total/NA
Trichloroethene	1.5		1.0	0.20	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	5.6		1.0	0.20	ug/L	1		8260D	Total/NA
Acetone	0.83	J	20	0.70	ug/L	1		8260D	Total/NA
n-Tetradecane	1.0	J	5.2	0.52	ug/L	1		625.1	Total/NA
Sulfate	140		75	25	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	540		300	120	mg/L	200		EPA 300.0 R2.1	Total/NA
Aluminum	42		30	12	ug/L	1		200.8 Rev 5.4	Total Recoverable
Arsenic	1.4	J	2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	200		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	130000		1200	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
Chromium	2.7		2.0	0.33	ug/L	1		200.8 Rev 5.4	Total Recoverable
Cobalt	1.7		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	0.62	J	1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	1800		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	48000		50	16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2000		2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	4.8		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	6200		200	65	ug/L	1		200.8 Rev 5.4	Total Recoverable
Selenium	1.6		1.0	0.28	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	320000		2000	900	ug/L	10		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	2.3	J	5.4	1.5	mg/L	1		1664A	Total/NA
Turbidity	13		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	370		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	660		100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	2700		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	1400		240	96	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	3.3		3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	1.3		1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	1.3		0.10	0.040	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	46	J	75	25	mg/L	1		410.4	Total/NA
pH	8.0	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	21.9	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Langelier Index	3.1				LangSU	1		SM 2330B	Total/NA

Client Sample ID: QAQC_TB

Lab Sample ID: 410-103228-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103228-1

Client Sample ID: ORS-EFFLUENT
Date Collected: 10/25/22 09:51
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103228-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/26/22 16:05	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/26/22 16:05	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/26/22 16:05	1
1,2-Dichloroethane	**1.2**		1.0	0.30	ug/L			10/26/22 16:05	1
1,2-Dichloroethene (total)	**1.6**		1.0	0.20	ug/L			10/26/22 16:05	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
1,4-Dioxane	ND		100	82	ug/L			10/26/22 16:05	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/26/22 16:05	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/26/22 16:05	1
2-Chloroethyl vinyl ether	ND	F1 cn	1.0	0.50	ug/L			10/26/22 16:05	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 16:05	1
2-Hexanone	ND	F1	2.0	0.50	ug/L			10/26/22 16:05	1
2-Propanol	ND	F2	20	8.0	ug/L			10/26/22 16:05	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 16:05	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/26/22 16:05	1
Acetonitrile	ND		50	14	ug/L			10/26/22 16:05	1
Benzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/26/22 16:05	1
Bromobenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Bromoform	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Bromomethane	ND		1.0	0.44	ug/L			10/26/22 16:05	1
Butyl acetate	ND		5.0	0.60	ug/L			10/26/22 16:05	1
Carbon disulfide	ND		1.0	0.45	ug/L			10/26/22 16:05	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			10/26/22 16:05	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Chloroethane	ND		1.0	0.44	ug/L			10/26/22 16:05	1
Chloroform	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Chloromethane	ND		1.0	0.64	ug/L			10/26/22 16:05	1
cis-1,2-Dichloroethene	**1.6**		1.0	0.20	ug/L			10/26/22 16:05	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Cyclohexane	ND		1.0	0.30	ug/L			10/26/22 16:05	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Dibromomethane	ND		1.0	0.20	ug/L			10/26/22 16:05	1

Client Sample ID: ORS-EFFLUENT
Date Collected: 10/25/22 09:51
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103228-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			10/26/22 16:05	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			10/26/22 16:05	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/26/22 16:05	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Freon 113	ND		1.0	0.30	ug/L			10/26/22 16:05	1
Freon 123a	ND		1.0	0.44	ug/L			10/26/22 16:05	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Isobutyl alcohol	ND		50	11	ug/L			10/26/22 16:05	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/26/22 16:05	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/26/22 16:05	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/26/22 16:05	1
Methacrylonitrile	ND		10	2.0	ug/L			10/26/22 16:05	1
Methyl iodide	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/26/22 16:05	1
Naphthalene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
n-Heptane	ND		1.0	0.30	ug/L			10/26/22 16:05	1
n-Hexane	ND		1.0	0.46	ug/L			10/26/22 16:05	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/26/22 16:05	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
o-Xylene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Propionitrile	ND		20	8.5	ug/L			10/26/22 16:05	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Styrene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/26/22 16:05	1
t-Butyl alcohol	ND	F2 F1	20	6.0	ug/L			10/26/22 16:05	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Tetrachloroethene	**1.4**		1.0	0.30	ug/L			10/26/22 16:05	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/26/22 16:05	1
Toluene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/26/22 16:05	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/26/22 16:05	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/26/22 16:05	1
Trichloroethene	**1.5**		1.0	0.20	ug/L			10/26/22 16:05	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/26/22 16:05	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/26/22 16:05	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/26/22 16:05	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/26/22 16:05	1
Acrolein	ND	cn	10	3.0	ug/L			10/26/22 16:05	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			10/26/22 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*		*10/26/22 16:05*	*1*
4-Bromofluorobenzene (Surr)	*108*		*60 - 140*		*10/26/22 16:05*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*10/26/22 16:05*	*1*

Client Sample ID: ORS-EFFLUENT
Date Collected: 10/25/22 09:51
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103228-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*60 - 140*		*10/26/22 16:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**5.6**		1.0	0.20	ug/L			11/04/22 18:08	1
Acetone	**0.83**	**J**	20	0.70	ug/L			11/04/22 18:08	1
2-Butanone	ND		10	0.50	ug/L			11/04/22 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*11/04/22 18:08*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*11/04/22 18:08*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*11/04/22 18:08*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/04/22 18:08*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
1,2,4,5-Tetrachlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
1,2-Dichlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
1,2-Diphenylhydrazine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
1,3-Dichlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
1,4-Dichlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
1,4-Dioxane	ND		5.2	2.1	ug/L		10/31/22 15:44	11/02/22 02:18	1
1-Methylnaphthalene	ND		5.2	0.36	ug/L		10/31/22 15:44	11/02/22 02:18	1
1-Methylphenanthrene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2,2'-oxybis[1-chloropropane]	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2,3,4,6-Tetrachlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2,3-Dichloroaniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2,4,5-Trichlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2,4,6-Trichlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2,4-Dichlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2,4-Dinitrophenol	ND		10	2.1	ug/L		10/31/22 15:44	11/02/22 02:18	1
2,4-Dinitrotoluene	ND	cn	5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2,6-Dichlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2,6-Dinitrotoluene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2-Chloronaphthalene	ND		5.2	1.0	ug/L		10/31/22 15:44	11/02/22 02:18	1
2-Chlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2-Methylnaphthalene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 02:18	1
2-Methylphenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2-Nitroaniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
2-Nitrophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
3,3'-Dichlorobenzidine	ND		5.2	0.83	ug/L		10/31/22 15:44	11/02/22 02:18	1
3-Nitroaniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
4,6-Dinitro-2-methylphenol	ND	cn	10	2.1	ug/L		10/31/22 15:44	11/02/22 02:18	1
4-Bromophenyl-phenylether	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
4-Chloro-3-methylphenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
4-Chloroaniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
4-Chlorophenyl-phenylether	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103228-1

Client Sample ID: ORS-EFFLUENT
Date Collected: 10/25/22 09:51
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103228-1
Matrix: Groundwater

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
4-Nitroaniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
4-Nitrophenol	ND		5.2	0.93	ug/L		10/31/22 15:44	11/02/22 02:18	1
Acenaphthene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 02:18	1
Acenaphthylene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 02:18	1
Acetophenone	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Aniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Anthracene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 02:18	1
a-Terpineol	ND		5.2	0.62	ug/L		10/31/22 15:44	11/02/22 02:18	1
Benzidine	ND		62	6.2	ug/L		10/31/22 15:44	11/02/22 02:18	1
Benzo[a]anthracene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 02:18	1
Benzo[a]pyrene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 02:18	1
Benzo[b]fluoranthene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 02:18	1
Benzo[g,h,i]perylene	ND		5.2	0.31	ug/L		10/31/22 15:44	11/02/22 02:18	1
Benzo[k]fluoranthene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 02:18	1
Benzyl alcohol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Bis(2-chloroethoxy)methane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Bis(2-chloroethyl)ether	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Bis(2-ethylhexyl) phthalate	ND		5.2	1.0	ug/L		10/31/22 15:44	11/02/22 02:18	1
Butylbenzylphthalate	ND		5.2	1.0	ug/L		10/31/22 15:44	11/02/22 02:18	1
Carbazole	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Chrysene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 02:18	1
Dibenz(a,h)anthracene	ND		5.2	0.31	ug/L		10/31/22 15:44	11/02/22 02:18	1
Dibenzofuran	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Diethylphthalate	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Dimethylphthalate	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Di-n-butyl phthalate	ND		5.2	1.0	ug/L		10/31/22 15:44	11/02/22 02:18	1
Di-n-octyl phthalate	ND	cn	5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Diphenyl ether	ND		5.2	0.77	ug/L		10/31/22 15:44	11/02/22 02:18	1
Fluoranthene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 02:18	1
Fluorene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 02:18	1
Hexachlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Hexachlorobutadiene	ND		2.1	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Hexachlorocyclopentadiene	ND		15	3.1	ug/L		10/31/22 15:44	11/02/22 02:18	1
Hexachloroethane	ND		2.1	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.31	ug/L		10/31/22 15:44	11/02/22 02:18	1
Isophorone	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Naphthalene	ND		2.1	0.31	ug/L		10/31/22 15:44	11/02/22 02:18	1
n-Decane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
n-Docosane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
n-Eicosane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
n-Hexadecane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Nitrobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
N-Nitrosodiethylamine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
N-Nitrosodimethylamine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
N-Nitrosodi-n-butylamine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
N-Nitrosodi-n-propylamine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
N-Nitrosodiphenylamine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
N-Nitrosopyrrolidine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1

Client Sample ID: ORS-EFFLUENT
Date Collected: 10/25/22 09:51
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103228-1
Matrix: Groundwater

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Octadecane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
n-Tetradecane	**1.0**	**J**	5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
o-Toluidine	ND		5.2	1.0	ug/L		10/31/22 15:44	11/02/22 02:18	1
Pentachlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Pentachlorophenol	ND		5.2	0.83	ug/L		10/31/22 15:44	11/02/22 02:18	1
Phenanthrene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 02:18	1
Phenol	ND		1.0	0.52	ug/L		10/31/22 15:44	11/02/22 02:18	1
Pyrene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 02:18	1
Pyridine	ND		5.2	0.83	ug/L		10/31/22 15:44	11/02/22 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*44*		*10 - 150*	*10/31/22 15:44*	*11/02/22 02:18*	*1*
2-Fluorobiphenyl (Surr)	*79*		*32 - 115*	*10/31/22 15:44*	*11/02/22 02:18*	*1*
2-Fluorophenol (Surr)	*26*		*10 - 83*	*10/31/22 15:44*	*11/02/22 02:18*	*1*
Nitrobenzene-d5 (Surr)	*78*		*41 - 111*	*10/31/22 15:44*	*11/02/22 02:18*	*1*
Phenol-d5 (Surr)	*20*		*10 - 59*	*10/31/22 15:44*	*11/02/22 02:18*	*1*
p-Terphenyl-d14 (Surr)	*84*		*37 - 140*	*10/31/22 15:44*	*11/02/22 02:18*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzoic acid	ND		31	4.1	ug/L		10/31/22 15:47	11/02/22 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*41*		*10 - 150*	*10/31/22 15:47*	*11/02/22 03:01*	*1*
2-Fluorobiphenyl (Surr)	*71*		*32 - 115*	*10/31/22 15:47*	*11/02/22 03:01*	*1*
2-Fluorophenol (Surr)	*28*		*10 - 83*	*10/31/22 15:47*	*11/02/22 03:01*	*1*
Nitrobenzene-d5 (Surr)	*72*		*41 - 111*	*10/31/22 15:47*	*11/02/22 03:01*	*1*
Phenol-d5 (Surr)	*19*		*10 - 59*	*10/31/22 15:47*	*11/02/22 03:01*	*1*
p-Terphenyl-d14 (Surr)	*82*		*37 - 140*	*10/31/22 15:47*	*11/02/22 03:01*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/26/22 08:12	10/26/22 17:54	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/26/22 08:12	10/26/22 17:54	1
Methane (1C)	ND		5.0	3.0	ug/L		10/26/22 08:12	10/26/22 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*91*		*43 - 133*	*10/26/22 08:12*	*10/26/22 17:54*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**140**		75	25	mg/L			10/31/22 14:55	50
Chloride	**540**		300	120	mg/L			11/01/22 16:12	200

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		10/27/22 04:32	10/28/22 00:56	1
Aluminum	**42**		30	12	ug/L		10/27/22 04:32	10/28/22 00:56	1
Arsenic	**1.4**	**J**	2.0	0.68	ug/L		10/27/22 04:32	10/28/22 00:56	1
Barium	**200**		2.0	0.75	ug/L		10/27/22 04:32	10/28/22 00:56	1
Beryllium	ND		0.50	0.12	ug/L		10/27/22 04:32	10/28/22 00:56	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103228-1

Client Sample ID: ORS-EFFLUENT

Date Collected: 10/25/22 09:51
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103228-1

Matrix: Groundwater

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.50	0.15	ug/L		10/27/22 04:32	10/28/22 00:56	1
Calcium	**130000**		1200	500	ug/L		10/27/22 04:32	10/28/22 12:52	10
Chromium	**2.7**		2.0	0.33	ug/L		10/27/22 04:32	10/28/22 00:56	1
Cobalt	**1.7**		0.50	0.16	ug/L		10/27/22 04:32	10/28/22 00:56	1
Copper	**0.62**	**J**	1.0	0.36	ug/L		10/27/22 04:32	10/28/22 00:56	1
Iron	**1800**		50	20	ug/L		10/27/22 04:32	10/28/22 00:56	1
Lead	ND		0.50	0.071	ug/L		10/27/22 04:32	10/28/22 00:56	1
Magnesium	**48000**		50	16	ug/L		10/27/22 04:32	10/28/22 00:56	1
Manganese	**2000**		2.0	0.95	ug/L		10/27/22 04:32	10/28/22 00:56	1
Nickel	**4.8**		1.0	0.40	ug/L		10/27/22 04:32	10/28/22 00:56	1
Potassium	**6200**		200	65	ug/L		10/27/22 04:32	10/28/22 00:56	1
Selenium	**1.6**		1.0	0.28	ug/L		10/27/22 04:32	10/28/22 00:56	1
Silver	ND		0.50	0.10	ug/L		10/27/22 04:32	10/28/22 00:56	1
Sodium	**320000**		2000	900	ug/L		10/27/22 04:32	10/28/22 12:52	10
Thallium	ND		0.50	0.13	ug/L		10/27/22 04:32	10/28/22 00:56	1
Vanadium	ND		4.0	0.79	ug/L		10/27/22 04:32	10/28/22 00:56	1
Zinc	ND		10	4.0	ug/L		10/27/22 04:32	10/28/22 00:56	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/28/22 05:57	10/28/22 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	**2.3**	**J**	5.4	1.5	mg/L			10/27/22 17:45	1
Turbidity (MCAWW 180.1)	**13**		1.0	1.0	NTU			10/26/22 20:50	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**370**		8.0	2.6	mg/L			10/27/22 22:46	1
Total Hardness (SM 2340C-2011)	**660**		100	30	mg/L			10/26/22 13:25	10
Specific Conductance (SM 2510B-2011)	**2700**		5.0	1.7	umhos/cm			10/27/22 22:46	1
Total Dissolved Solids (SM 2540C - 2015)	**1400**		240	96	mg/L			10/26/22 06:53	1
Total Suspended Solids (SM 2540D-2015)	**3.3**		3.0	1.0	mg/L			10/26/22 15:33	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			10/26/22 13:48	1
Total Kjeldahl Nitrogen (MCAWW 351.2)	**1.3**		1.0	0.50	mg/L		10/27/22 10:20	10/28/22 09:46	1
Nitrate as N (EPA 353.2)	**1.3**		0.10	0.040	mg/L			10/27/22 07:02	1
Total Phosphorus as PO4 (EPA 365.1)	ND		0.31	0.25	mg/L		10/26/22 09:35	10/27/22 06:29	1
Chemical Oxygen Demand (MCAWW 410.4)	**46**	**J**	75	25	mg/L			10/26/22 06:38	1
Phenols, Total (MCAWW 420.4)	ND		0.020	0.010	mg/L			11/01/22 10:13	1
pH (SM 4500 H+ B-2011)	**8.0**	**HF**	0.01	0.01	S.U.			10/27/22 22:46	1
Temperature (SM 4500 H+ B-2011)	**21.9**	**HF**	0.01	0.01	Degrees C			10/27/22 22:46	1
Biochemical Oxygen Demand (SM 5210 B-2011)	ND		2.0	2.0	mg/L			10/26/22 19:14	1
Langelier Index (SM 2330B)	**3.1**				LangSU			10/26/22 05:01	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103228-1

Client Sample ID: QAQC_TB
Date Collected: 10/19/22 00:00
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103228-2
Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/26/22 15:23	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/26/22 15:23	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Benzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Bromoform	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Bromomethane	ND		1.0	0.44	ug/L			10/26/22 15:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/26/22 15:23	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			10/26/22 15:23	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/26/22 15:23	1
Chloroethane	ND		1.0	0.44	ug/L			10/26/22 15:23	1
Chloroform	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Chloromethane	ND		1.0	0.64	ug/L			10/26/22 15:23	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/26/22 15:23	1
1,4-Dioxane	ND		100	82	ug/L			10/26/22 15:23	1
Toluene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/26/22 15:23	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/26/22 15:23	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/26/22 15:23	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/26/22 15:23	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 15:23	1
Trichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
2-Hexanone	ND		2.0	0.50	ug/L			10/26/22 15:23	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/26/22 15:23	1
2-Propanol	ND		20	8.0	ug/L			10/26/22 15:23	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/26/22 15:23	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 15:23	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103228-1

Client Sample ID: QAQC_TB
Date Collected: 10/19/22 00:00
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103228-2
Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/26/22 15:23	1
Acetonitrile	ND		50	14	ug/L			10/26/22 15:23	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/26/22 15:23	1
Bromobenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Butyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:23	1
Carbon disulfide	ND		1.0	0.45	ug/L			10/26/22 15:23	1
Cyclohexane	ND		1.0	0.30	ug/L			10/26/22 15:23	1
Dibromomethane	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			10/26/22 15:23	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			10/26/22 15:23	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/26/22 15:23	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Freon 113	ND		1.0	0.30	ug/L			10/26/22 15:23	1
Freon 123a	ND		1.0	0.44	ug/L			10/26/22 15:23	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Isobutyl alcohol	ND		50	11	ug/L			10/26/22 15:23	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:23	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/26/22 15:23	1
Methacrylonitrile	ND		10	2.0	ug/L			10/26/22 15:23	1
Methyl iodide	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Naphthalene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Propionitrile	ND		20	8.5	ug/L			10/26/22 15:23	1
Styrene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/26/22 15:23	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/26/22 15:23	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/26/22 15:23	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/26/22 15:23	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
n-Heptane	ND		1.0	0.30	ug/L			10/26/22 15:23	1
n-Hexane	ND		1.0	0.46	ug/L			10/26/22 15:23	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:23	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
o-Xylene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/26/22 15:23	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/26/22 15:23	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:23	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/26/22 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*10/26/22 15:23*	*1*
4-Bromofluorobenzene (Surr)	*109*		*60 - 140*		*10/26/22 15:23*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*10/26/22 15:23*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*10/26/22 15:23*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103228-1

Client Sample ID: QAQC_TB
Date Collected: 10/19/22 00:00
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103228-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/02/22 14:16	1
Acetone	ND		20	0.70	ug/L			11/02/22 14:16	1
2-Butanone	ND		10	0.50	ug/L			11/02/22 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*11/02/22 14:16*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/02/22 14:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/02/22 14:16*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/02/22 14:16*	*1*

Action Limit Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103228-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-EFFLUENT
Lab Sample ID: 410-103228-1

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	2.3	J	mg/L	5	5.4	1664A	Total/NA

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103228-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-103228-1	ORS-EFFLUENT	94	108	99	99
410-103228-1 MS	ORS-EFFLUENT	95	106	90	107
410-103228-1 MSD	ORS-EFFLUENT	86	111	86	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-103228-2	QAQC_TB	102	109	101	99
LCS 410-310759/1003	Lab Control Sample	92	103	93	109
LCS 410-310759/1004	Lab Control Sample	92	117	87	93
MB 410-310759/5	Method Blank	98	104	100	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-103228-1	ORS-EFFLUENT	101	101	108	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-103228-2	QAQC_TB	105	103	96	97
LCS 410-312990/4	Lab Control Sample	98	98	101	98
LCS 410-313828/4	Lab Control Sample	98	98	107	98
MB 410-312990/6	Method Blank	102	102	99	96
MB 410-313828/6	Method Blank	100	100	106	95

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103228-1

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-111)	(10-59)	(37-140)
410-103228-1	ORS-EFFLUENT	44	79	26	78	20	84
410-103228-1 - RE	ORS-EFFLUENT	41	71	28	72	19	82

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-111)	(10-59)	(37-140)
LCS 410-312336/2-A	Lab Control Sample	66	73	45	70	35	72
LCS 410-312336/4-A	Lab Control Sample	58	80	42	75	32	80
LCS 410-312339/2-A	Lab Control Sample	70	83	44	78	34	92
LCSD 410-312336/3-A	Lab Control Sample Dup	71	77	44	76	33	86
LCSD 410-312336/5-A	Lab Control Sample Dup	54	68	32	65	24	80
LCSD 410-312339/3-A	Lab Control Sample Dup	70	82	48	78	36	88
MB 410-312336/1-A	Method Blank	52	63	33	65	24	77
MB 410-312339/1-A	Method Blank	25	71	28	72	21	77

Surrogate Legend

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

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		Propene1
Lab Sample ID	Client Sample ID	(43-133)
410-103228-1	ORS-EFFLUENT	91

Surrogate Legend

Propene = Propene

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103228-1
Project/Site: EMGPRP-31097

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(43-133)								
LCS 410-310570/2-A	Lab Control Sample	113								
LCSD 410-310570/3-A	Lab Control Sample Dup	112								
MB 410-310570/1-A	Method Blank	115								

Surrogate Legend

Propene = Propene

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-310759/5
Matrix: Water
Analysis Batch: 310759

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/26/22 15:01	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/26/22 15:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/26/22 15:01	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/26/22 15:01	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			10/26/22 15:01	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			10/26/22 15:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Benzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,4-Dioxane	ND		100	82	ug/L			10/26/22 15:01	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Bromoform	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Bromomethane	ND		1.0	0.44	ug/L			10/26/22 15:01	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/26/22 15:01	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			10/26/22 15:01	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 15:01	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Chloroethane	ND		1.0	0.44	ug/L			10/26/22 15:01	1
2-Hexanone	ND		2.0	0.50	ug/L			10/26/22 15:01	1
Chloroform	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Chloromethane	ND		1.0	0.64	ug/L			10/26/22 15:01	1
2-Propanol	ND		20	8.0	ug/L			10/26/22 15:01	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 15:01	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/26/22 15:01	1
Acetonitrile	ND		50	14	ug/L			10/26/22 15:01	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/26/22 15:01	1
Bromobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Butyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:01	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Carbon disulfide	ND		1.0	0.45	ug/L			10/26/22 15:01	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-310759/5
Matrix: Water
Analysis Batch: 310759

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Dibromomethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			10/26/22 15:01	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			10/26/22 15:01	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/26/22 15:01	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Freon 113	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Freon 123a	ND		1.0	0.44	ug/L			10/26/22 15:01	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Isobutyl alcohol	ND		50	11	ug/L			10/26/22 15:01	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:01	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/26/22 15:01	1
Methacrylonitrile	ND		10	2.0	ug/L			10/26/22 15:01	1
Methyl iodide	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Naphthalene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Propionitrile	ND		20	8.5	ug/L			10/26/22 15:01	1
Styrene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/26/22 15:01	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/26/22 15:01	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
n-Heptane	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/26/22 15:01	1
n-Hexane	ND		1.0	0.46	ug/L			10/26/22 15:01	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/26/22 15:01	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:01	1
Toluene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
o-Xylene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/26/22 15:01	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Trichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/26/22 15:01	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/26/22 15:01	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/26/22 15:01	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/26/22 15:01	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Acrolein	ND		10	3.0	ug/L			10/26/22 15:01	1
Acrylonitrile	ND		3.0	1.1	ug/L			10/26/22 15:01	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-310759/5
Matrix: Water
Analysis Batch: 310759

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*10/26/22 15:01*	*1*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*10/26/22 15:01*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*10/26/22 15:01*	*1*
Toluene-d8 (Surr)	*95*		*60 - 140*		*10/26/22 15:01*	*1*

Lab Sample ID: LCS 410-310759/1003
Matrix: Water
Analysis Batch: 310759

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	20.7		ug/L		103	60 - 140
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	20.0	23.9		ug/L		119	60 - 140
1,1,2-Trichloroethane	20.0	22.5		ug/L		113	70 - 130
1,1-Dichloroethane	20.0	19.5		ug/L		97	70 - 130
1,1-Dichloroethene	20.0	18.9		ug/L		94	50 - 150
1,1-Dichloropropene	20.0	19.9		ug/L		100	60 - 140
1,2,3-Trichlorobenzene	20.0	16.1		ug/L		81	60 - 140
1,2,3-Trichloropropane	20.0	22.8		ug/L		114	60 - 140
1,2,4-Trichlorobenzene	20.0	14.5		ug/L		72	60 - 140
1,2-Dichloroethane	20.0	17.2		ug/L		86	70 - 130
1,2,4-Trimethylbenzene	20.0	21.3		ug/L		106	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	21.7		ug/L		109	60 - 140
1,2-Dichloropropane	20.0	22.3		ug/L		111	35 - 165
1,2-Dibromoethane	20.0	21.8		ug/L		109	60 - 140
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	65 - 135
1,2-Dichloroethene (total)	40.0	37.1		ug/L		93	60 - 140
1,3,5-Trimethylbenzene	20.0	21.1		ug/L		105	60 - 140
1,3-Dichlorobenzene	20.0	18.9		ug/L		94	70 - 130
1,3-Dichloropropane	20.0	21.0		ug/L		105	60 - 140
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	65 - 135
Benzene	20.0	21.5		ug/L		107	65 - 135
1,4-Dioxane	500	441		ug/L		88	60 - 140
Bromodichloromethane	20.0	21.1		ug/L		106	65 - 135
2,2-Dichloropropane	20.0	19.4		ug/L		97	60 - 140
Bromoform	20.0	24.6		ug/L		123	70 - 130
Bromomethane	20.0	19.2		ug/L		96	15 - 185
2-Chloro-1,3-butadiene	20.0	22.5		ug/L		112	60 - 140
Carbon tetrachloride	20.0	20.9		ug/L		105	70 - 130
2-Chlorotoluene	20.0	21.0		ug/L		105	60 - 140
Chlorobenzene	20.0	21.1		ug/L		105	65 - 135
Chloroethane	20.0	21.9		ug/L		109	40 - 160
2-Hexanone	250	330		ug/L		132	60 - 140
Chloroform	20.0	19.2		ug/L		96	70 - 135
Chloromethane	20.0	23.9		ug/L		119	10 - 200
2-Propanol	150	177		ug/L		118	60 - 140
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	60 - 140
cis-1,3-Dichloropropene	20.0	20.2		ug/L		101	25 - 175

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-310759/1003
Matrix: Water
Analysis Batch: 310759

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorotoluene	20.0	23.1		ug/L		116	60 - 140
Dibromochloromethane	20.0	23.9		ug/L		119	70 - 135
4-Methyl-2-pentanone	250	294		ug/L		117	60 - 140
Benzyl chloride	20.0	21.9		ug/L		110	60 - 140
Bromobenzene	20.0	21.5		ug/L		107	60 - 140
Ethylbenzene	20.0	21.5		ug/L		108	60 - 140
Carbon disulfide	20.0	24.2		ug/L		121	60 - 140
Cyclohexane	20.0	22.3		ug/L		112	60 - 140
Dibromomethane	20.0	18.7		ug/L		93	60 - 140
Dichlorodifluoromethane	20.0	22.9		ug/L		114	60 - 140
Dichlorofluoromethane	20.0	21.6		ug/L		108	60 - 140
Ethyl methacrylate	20.0	19.2		ug/L		96	60 - 140
Ethyl t-butyl ether	20.0	20.5		ug/L		102	60 - 140
Freon 113	20.0	21.9		ug/L		109	60 - 140
Freon 123a	20.0	21.4		ug/L		107	60 - 140
Hexachlorobutadiene	20.0	16.0		ug/L		80	60 - 140
Methylene Chloride	20.0	17.7		ug/L		88	60 - 140
Isobutyl alcohol	500	519		ug/L		104	60 - 140
Isopropylbenzene	20.0	20.3		ug/L		102	60 - 140
Methacrylonitrile	150	138		ug/L		92	60 - 140
Methyl iodide	20.0	18.8		ug/L		94	60 - 140
Methyl methacrylate	20.0	20.6		ug/L		103	60 - 140
Naphthalene	20.0	15.7		ug/L		78	60 - 140
Propionitrile	150	145		ug/L		96	60 - 140
Styrene	20.0	22.1		ug/L		110	60 - 140
di-Isopropyl ether	20.0	19.3		ug/L		97	60 - 140
m&p-Xylene	40.0	45.6		ug/L		114	60 - 140
n-Butylbenzene	20.0	19.5		ug/L		98	60 - 140
n-Heptane	20.0	21.4		ug/L		107	60 - 140
Tetrachloroethene	20.0	20.5		ug/L		102	70 - 130
n-Hexane	20.0	24.3		ug/L		122	60 - 140
Tetrahydrofuran	100	89.1		ug/L		89	60 - 140
Toluene	20.0	22.5		ug/L		112	70 - 130
N-Propylbenzene	20.0	22.0		ug/L		110	60 - 140
o-Xylene	20.0	20.4		ug/L		102	60 - 140
trans-1,2-Dichloroethene	20.0	17.7		ug/L		88	70 - 130
p-Isopropyltoluene	20.0	20.1		ug/L		101	60 - 140
trans-1,3-Dichloropropene	20.0	23.2		ug/L		116	50 - 150
sec-Butylbenzene	20.0	20.3		ug/L		102	60 - 140
t-Amyl methyl ether	20.0	17.3		ug/L		87	60 - 140
Trichloroethene	20.0	19.5		ug/L		97	65 - 135
t-Butyl alcohol	200	161		ug/L		81	60 - 140
Trichlorofluoromethane	20.0	18.9		ug/L		94	50 - 150
tert-Butylbenzene	20.0	19.8		ug/L		99	60 - 140
trans-1,4-Dichloro-2-butene	100	135		ug/L		135	60 - 140
Vinyl chloride	20.0	22.0		ug/L		110	10 - 195
Xylenes, Total	60.0	66.0		ug/L		110	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-310759/1003
Matrix: Water
Analysis Batch: 310759

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
4-Bromofluorobenzene (Surr)	103		60 - 140
Dibromofluoromethane (Surr)	93		60 - 140
Toluene-d8 (Surr)	109		60 - 140

Lab Sample ID: LCS 410-310759/1004
Matrix: Water
Analysis Batch: 310759

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	150	149		ug/L		99	60 - 140
Butyl acetate	20.0	15.8		ug/L		79	60 - 140
Ethyl acetate	20.0	19.2		ug/L		96	60 - 140
Isopropyl acetate	20.0	16.6		ug/L		83	60 - 140
n-Propyl acetate	20.0	17.6		ug/L		88	60 - 140
Vinyl acetate	100	99.3		ug/L		99	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
4-Bromofluorobenzene (Surr)	117		60 - 140
Dibromofluoromethane (Surr)	87		60 - 140
Toluene-d8 (Surr)	93		60 - 140

Lab Sample ID: 410-103228-1 MS
Matrix: Groundwater
Analysis Batch: 310759

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		20.0	21.1		ug/L		106	60 - 140
1,1,1-Trichloroethane	ND		20.0	21.0		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	ND		20.0	24.3		ug/L		121	60 - 140
1,1,2-Trichloroethane	ND		20.0	22.5		ug/L		113	70 - 130
1,1-Dichloroethane	ND		20.0	20.3		ug/L		102	70 - 130
1,1-Dichloroethene	ND		20.0	20.8		ug/L		104	50 - 150
1,1-Dichloropropene	ND		20.0	21.6		ug/L		108	60 - 140
1,2,3-Trichlorobenzene	ND		20.0	16.0		ug/L		80	60 - 140
1,2,3-Trichloropropane	ND		20.0	24.6		ug/L		123	60 - 140
1,2,4-Trichlorobenzene	ND		20.0	14.4		ug/L		72	60 - 140
1,2-Dichloroethane	1.2		20.0	19.5		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	ND		20.0	22.2		ug/L		111	60 - 140
1,2-Dibromo-3-Chloropropane	ND		20.0	21.4		ug/L		107	60 - 140
1,2-Dichloropropane	ND		20.0	23.6		ug/L		118	35 - 165
1,2-Dibromoethane	ND		20.0	22.3		ug/L		112	60 - 140
1,2-Dichlorobenzene	ND		20.0	19.8		ug/L		99	65 - 135
1,2-Dichloroethene (total)	1.6		40.0	38.9		ug/L		93	60 - 140
1,3,5-Trimethylbenzene	ND		20.0	22.0		ug/L		110	60 - 140
1,3-Dichlorobenzene	ND		20.0	19.8		ug/L		99	70 - 130
1,3-Dichloropropane	ND		20.0	22.6		ug/L		113	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-103228-1 MS
Matrix: Groundwater
Analysis Batch: 310759

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	ND		20.0	21.3		ug/L		106	65 - 135
Benzene	ND		20.0	21.8		ug/L		109	65 - 135
1,4-Dioxane	ND		500	339		ug/L		68	60 - 140
Bromodichloromethane	ND		20.0	21.1		ug/L		105	65 - 135
2,2-Dichloropropane	ND		20.0	18.5		ug/L		92	60 - 140
Bromoform	ND		20.0	19.6		ug/L		98	70 - 130
Bromomethane	ND		20.0	19.1		ug/L		95	15 - 185
2-Chloro-1,3-butadiene	ND		20.0	24.2		ug/L		121	60 - 140
Carbon tetrachloride	ND		20.0	22.0		ug/L		110	70 - 130
2-Chlorotoluene	ND		20.0	21.2		ug/L		106	60 - 140
Chlorobenzene	ND		20.0	22.4		ug/L		112	65 - 135
Chloroethane	ND		20.0	21.2		ug/L		106	40 - 160
2-Hexanone	ND	F1	250	355	F1	ug/L		142	60 - 140
Chloroform	ND		20.0	20.0		ug/L		100	70 - 135
Chloromethane	ND		20.0	25.1		ug/L		125	10 - 200
2-Propanol	ND	F2	150	181		ug/L		120	60 - 140
cis-1,2-Dichloroethene	1.6		20.0	20.6		ug/L		95	60 - 140
cis-1,3-Dichloropropene	ND		20.0	19.5		ug/L		98	25 - 175
4-Chlorotoluene	ND		20.0	24.0		ug/L		120	60 - 140
Dibromochloromethane	ND		20.0	23.1		ug/L		115	70 - 135
4-Methyl-2-pentanone	ND		250	307		ug/L		123	60 - 140
Benzyl chloride	ND		20.0	22.6		ug/L		113	60 - 140
Bromobenzene	ND		20.0	22.1		ug/L		111	60 - 140
Ethylbenzene	ND		20.0	22.9		ug/L		114	60 - 140
Carbon disulfide	ND		20.0	25.0		ug/L		125	60 - 140
Cyclohexane	ND		20.0	24.3		ug/L		122	60 - 140
Dibromomethane	ND		20.0	19.5		ug/L		98	60 - 140
Dichlorodifluoromethane	ND		20.0	24.4		ug/L		122	60 - 140
Dichlorofluoromethane	ND		20.0	20.6		ug/L		103	60 - 140
Ethyl methacrylate	ND		20.0	22.2		ug/L		111	60 - 140
Ethyl t-butyl ether	ND		20.0	18.8		ug/L		94	60 - 140
Freon 113	ND		20.0	24.4		ug/L		122	60 - 140
Freon 123a	ND		20.0	22.1		ug/L		110	60 - 140
Hexachlorobutadiene	ND		20.0	16.6		ug/L		83	60 - 140
Methylene Chloride	ND		20.0	18.9		ug/L		94	60 - 140
Isobutyl alcohol	ND		500	522		ug/L		104	60 - 140
Isopropylbenzene	ND		20.0	19.9		ug/L		100	60 - 140
Methacrylonitrile	ND		150	160		ug/L		107	60 - 140
Methyl iodide	ND		20.0	20.0		ug/L		100	60 - 140
Methyl methacrylate	ND		20.0	22.9		ug/L		115	60 - 140
Naphthalene	ND		20.0	15.3		ug/L		76	60 - 140
Propionitrile	ND		150	136		ug/L		91	60 - 140
Styrene	ND		20.0	23.0		ug/L		115	60 - 140
di-Isopropyl ether	ND		20.0	20.6		ug/L		103	60 - 140
m&p-Xylene	ND		40.0	47.4		ug/L		119	60 - 140
n-Butylbenzene	ND		20.0	20.9		ug/L		105	60 - 140
n-Heptane	ND		20.0	24.4		ug/L		122	60 - 140
Tetrachloroethene	1.4		20.0	22.5		ug/L		105	70 - 130
n-Hexane	ND		20.0	27.2		ug/L		136	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-103228-1 MS
Matrix: Groundwater
Analysis Batch: 310759

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrahydrofuran	ND		100	102		ug/L		102	60 - 140
Toluene	ND		20.0	22.9		ug/L		114	70 - 130
N-Propylbenzene	ND		20.0	23.4		ug/L		117	60 - 140
o-Xylene	ND		20.0	20.5		ug/L		103	60 - 140
trans-1,2-Dichloroethene	ND		20.0	18.3		ug/L		91	70 - 130
p-Isopropyltoluene	ND		20.0	20.8		ug/L		104	60 - 140
trans-1,3-Dichloropropene	ND		20.0	22.4		ug/L		112	50 - 150
sec-Butylbenzene	ND		20.0	21.8		ug/L		109	60 - 140
t-Amyl methyl ether	ND		20.0	17.5		ug/L		88	60 - 140
Trichloroethene	1.5		20.0	22.1		ug/L		103	65 - 135
t-Butyl alcohol	ND	F2 F1	200	304	F1	ug/L		152	60 - 140
Trichlorofluoromethane	ND		20.0	19.5		ug/L		97	50 - 150
tert-Butylbenzene	ND		20.0	20.6		ug/L		103	60 - 140
trans-1,4-Dichloro-2-butene	ND		100	105		ug/L		105	60 - 140
Vinyl chloride	ND		20.0	23.3		ug/L		117	10 - 195
Xylenes, Total	ND		60.0	67.9		ug/L		113	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*
Dibromofluoromethane (Surr)	*90*		*60 - 140*
Toluene-d8 (Surr)	*107*		*60 - 140*

Lab Sample ID: 410-103228-1 MSD
Matrix: Groundwater
Analysis Batch: 310759

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	18.3		ug/L		92	60 - 140	14	30
1,1,1-Trichloroethane	ND		20.0	19.6		ug/L		98	70 - 130	7	30
1,1,2,2-Tetrachloroethane	ND		20.0	22.9		ug/L		115	60 - 140	6	30
1,1,2-Trichloroethane	ND		20.0	20.2		ug/L		101	70 - 130	11	30
1,1-Dichloroethane	ND		20.0	19.3		ug/L		97	70 - 130	5	30
1,1-Dichloroethene	ND		20.0	18.9		ug/L		94	50 - 150	10	30
1,1-Dichloropropene	ND		20.0	19.9		ug/L		100	60 - 140	8	30
1,2,3-Trichlorobenzene	ND		20.0	14.9		ug/L		75	60 - 140	7	30
1,2,3-Trichloropropane	ND		20.0	22.5		ug/L		112	60 - 140	9	30
1,2,4-Trichlorobenzene	ND		20.0	13.7		ug/L		69	60 - 140	5	30
1,2-Dichloroethane	1.2		20.0	16.9		ug/L		79	70 - 130	14	30
1,2,4-Trimethylbenzene	ND		20.0	20.7		ug/L		103	60 - 140	7	30
1,2-Dibromo-3-Chloropropane	ND		20.0	21.0		ug/L		105	60 - 140	2	30
1,2-Dichloropropane	ND		20.0	20.6		ug/L		103	35 - 165	14	30
1,2-Dibromoethane	ND		20.0	20.6		ug/L		103	60 - 140	8	30
1,2-Dichlorobenzene	ND		20.0	18.4		ug/L		92	65 - 135	8	30
1,2-Dichloroethene (total)	1.6		40.0	35.7		ug/L		85	60 - 140	9	30
1,3,5-Trimethylbenzene	ND		20.0	20.5		ug/L		102	60 - 140	7	30
1,3-Dichlorobenzene	ND		20.0	18.5		ug/L		93	70 - 130	6	30
1,3-Dichloropropane	ND		20.0	20.5		ug/L		102	60 - 140	10	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-103228-1 MSD
Matrix: Groundwater
Analysis Batch: 310759

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		20.0	19.7		ug/L		99	65 - 135	8	30
Benzene	ND		20.0	20.0		ug/L		100	65 - 135	9	30
1,4-Dioxane	ND		500	396		ug/L		79	60 - 140	16	30
Bromodichloromethane	ND		20.0	19.2		ug/L		96	65 - 135	9	30
2,2-Dichloropropane	ND		20.0	18.0		ug/L		90	60 - 140	2	30
Bromoform	ND		20.0	20.3		ug/L		102	70 - 130	4	30
Bromomethane	ND		20.0	19.5		ug/L		98	15 - 185	2	30
2-Chloro-1,3-butadiene	ND		20.0	23.1		ug/L		115	60 - 140	5	30
Carbon tetrachloride	ND		20.0	20.9		ug/L		104	70 - 130	5	30
2-Chlorotoluene	ND		20.0	20.3		ug/L		101	60 - 140	5	30
Chlorobenzene	ND		20.0	19.6		ug/L		98	65 - 135	13	30
Chloroethane	ND		20.0	22.0		ug/L		110	40 - 160	3	30
2-Hexanone	ND	F1	250	325		ug/L		130	60 - 140	9	30
Chloroform	ND		20.0	17.5		ug/L		87	70 - 135	14	30
Chloromethane	ND		20.0	25.5		ug/L		128	10 - 200	2	30
2-Propanol	ND	F2	150	133	F2	ug/L		89	60 - 140	31	30
cis-1,2-Dichloroethene	1.6		20.0	18.5		ug/L		84	60 - 140	11	30
cis-1,3-Dichloropropene	ND		20.0	17.9		ug/L		90	25 - 175	9	30
4-Chlorotoluene	ND		20.0	22.5		ug/L		113	60 - 140	7	30
Dibromochloromethane	ND		20.0	20.9		ug/L		105	70 - 135	10	30
4-Methyl-2-pentanone	ND		250	290		ug/L		116	60 - 140	6	30
Benzyl chloride	ND		20.0	21.3		ug/L		106	60 - 140	6	30
Bromobenzene	ND		20.0	19.3		ug/L		96	60 - 140	14	30
Ethylbenzene	ND		20.0	21.1		ug/L		106	60 - 140	8	30
Carbon disulfide	ND		20.0	23.2		ug/L		116	60 - 140	7	30
Cyclohexane	ND		20.0	22.9		ug/L		114	60 - 140	6	30
Dibromomethane	ND		20.0	17.6		ug/L		88	60 - 140	10	30
Dichlorodifluoromethane	ND		20.0	25.5		ug/L		128	60 - 140	4	30
Dichlorofluoromethane	ND		20.0	21.7		ug/L		108	60 - 140	5	30
Ethyl methacrylate	ND		20.0	19.6		ug/L		98	60 - 140	13	30
Ethyl t-butyl ether	ND		20.0	16.9		ug/L		85	60 - 140	10	30
Freon 113	ND		20.0	22.1		ug/L		110	60 - 140	10	30
Freon 123a	ND		20.0	21.2		ug/L		106	60 - 140	4	30
Hexachlorobutadiene	ND		20.0	15.3		ug/L		77	60 - 140	8	30
Methylene Chloride	ND		20.0	16.0		ug/L		80	60 - 140	16	30
Isobutyl alcohol	ND		500	473		ug/L		95	60 - 140	10	30
Isopropylbenzene	ND		20.0	18.6		ug/L		93	60 - 140	7	30
Methacrylonitrile	ND		150	141		ug/L		94	60 - 140	13	30
Methyl iodide	ND		20.0	18.0		ug/L		90	60 - 140	11	30
Methyl methacrylate	ND		20.0	20.4		ug/L		102	60 - 140	12	30
Naphthalene	ND		20.0	14.7		ug/L		73	60 - 140	4	30
Propionitrile	ND		150	116		ug/L		77	60 - 140	16	30
Styrene	ND		20.0	21.4		ug/L		107	60 - 140	7	30
di-Isopropyl ether	ND		20.0	20.2		ug/L		101	60 - 140	2	30
m&p-Xylene	ND		40.0	43.5		ug/L		109	60 - 140	9	30
n-Butylbenzene	ND		20.0	19.4		ug/L		97	60 - 140	7	30
n-Heptane	ND		20.0	23.8		ug/L		119	60 - 140	2	30
Tetrachloroethene	1.4		20.0	21.1		ug/L		99	70 - 130	6	30
n-Hexane	ND		20.0	27.2		ug/L		136	60 - 140	0	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-103228-1 MSD
Matrix: Groundwater
Analysis Batch: 310759

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrahydrofuran	ND		100	82.7		ug/L		83	60 - 140	21	30
Toluene	ND		20.0	21.2		ug/L		106	70 - 130	7	30
N-Propylbenzene	ND		20.0	21.8		ug/L		109	60 - 140	7	30
o-Xylene	ND		20.0	18.5		ug/L		92	60 - 140	11	30
trans-1,2-Dichloroethene	ND		20.0	17.2		ug/L		86	70 - 130	6	30
p-Isopropyltoluene	ND		20.0	19.5		ug/L		98	60 - 140	6	30
trans-1,3-Dichloropropene	ND		20.0	21.9		ug/L		110	50 - 150	2	30
sec-Butylbenzene	ND		20.0	20.5		ug/L		102	60 - 140	6	30
t-Amyl methyl ether	ND		20.0	15.8		ug/L		79	60 - 140	10	30
Trichloroethene	1.5		20.0	20.3		ug/L		94	65 - 135	9	30
t-Butyl alcohol	ND	F2 F1	200	186	F2	ug/L		93	60 - 140	48	30
Trichlorofluoromethane	ND		20.0	20.6		ug/L		103	50 - 150	6	30
tert-Butylbenzene	ND		20.0	19.2		ug/L		96	60 - 140	7	30
trans-1,4-Dichloro-2-butene	ND		100	99.2		ug/L		99	60 - 140	6	30
Vinyl chloride	ND		20.0	23.7		ug/L		119	10 - 195	2	30
Xylenes, Total	ND		60.0	62.0		ug/L		103	60 - 140	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 140*
4-Bromofluorobenzene (Surr)	*111*		*60 - 140*
Dibromofluoromethane (Surr)	*86*		*60 - 140*
Toluene-d8 (Surr)	*105*		*60 - 140*

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

Lab Sample ID: MB 410-312990/6
Matrix: Water
Analysis Batch: 312990

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/02/22 10:55	1
Acetone	ND		20	0.70	ug/L			11/02/22 10:55	1
2-Butanone	ND		10	0.50	ug/L			11/02/22 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*11/02/22 10:55*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*11/02/22 10:55*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/02/22 10:55*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/02/22 10:55*	*1*

Lab Sample ID: LCS 410-312990/4
Matrix: Water
Analysis Batch: 312990

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tertiary butyl ether	20.0	18.0		ug/L		90	69 - 122
Acetone	250	236		ug/L		94	54 - 157
2-Butanone	250	271		ug/L		108	59 - 135

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

Lab Sample ID: LCS 410-312990/4
Matrix: Water
Analysis Batch: 312990

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 410-313828/6
Matrix: Water
Analysis Batch: 313828

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/04/22 10:08	1
Acetone	ND		20	0.70	ug/L			11/04/22 10:08	1
2-Butanone	ND		10	0.50	ug/L			11/04/22 10:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/04/22 10:08*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*11/04/22 10:08*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*11/04/22 10:08*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/04/22 10:08*	*1*

Lab Sample ID: LCS 410-313828/4
Matrix: Water
Analysis Batch: 313828

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl tertiary butyl ether			20.0	18.3		ug/L		92	69 - 122		
Acetone			250	223		ug/L		89	54 - 157		
2-Butanone			250	262		ug/L		105	59 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-312336/1-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-312336/1-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,4-Dioxane	ND		5.0	2.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		10/31/22 15:44	11/02/22 00:09	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Chlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Methylphenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Nitroaniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Nitrophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		10/31/22 15:44	11/02/22 00:09	1
3-Nitroaniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Chloroaniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Methylphenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Nitroaniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Nitrophenol	ND		5.0	0.90	ug/L		10/31/22 15:44	11/02/22 00:09	1
Acenaphthene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
Acenaphthylene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Acetophenone	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Aniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Anthracene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
a-Terpineol	ND		5.0	0.60	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzidine	ND		60	6.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzyl alcohol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Carbazole	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-312336/1-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		10/31/22 15:44	11/02/22 00:09	1
Dibenzofuran	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Diethylphthalate	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Dimethylphthalate	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Diphenyl ether	ND		5.0	0.75	ug/L		10/31/22 15:44	11/02/22 00:09	1
Fluoranthene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Fluorene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Hexachloroethane	ND		2.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		10/31/22 15:44	11/02/22 00:09	1
Isophorone	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Naphthalene	ND		2.0	0.30	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Decane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Docosane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Eicosane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Hexadecane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Nitrobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Octadecane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Tetradecane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
o-Toluidine	ND		5.0	1.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Pentachlorophenol	ND		5.0	0.80	ug/L		10/31/22 15:44	11/02/22 00:09	1
Phenanthrene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Phenol	ND		1.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Pyrene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
Pyridine	ND		5.0	0.80	ug/L		10/31/22 15:44	11/02/22 00:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*52*		*10 - 150*	*10/31/22 15:44*	*11/02/22 00:09*	*1*
2-Fluorobiphenyl (Surr)	*63*		*32 - 115*	*10/31/22 15:44*	*11/02/22 00:09*	*1*
2-Fluorophenol (Surr)	*33*		*10 - 83*	*10/31/22 15:44*	*11/02/22 00:09*	*1*
Nitrobenzene-d5 (Surr)	*65*		*41 - 111*	*10/31/22 15:44*	*11/02/22 00:09*	*1*
Phenol-d5 (Surr)	*24*		*10 - 59*	*10/31/22 15:44*	*11/02/22 00:09*	*1*
p-Terphenyl-d14 (Surr)	*77*		*37 - 140*	*10/31/22 15:44*	*11/02/22 00:09*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-312336/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 312567
Prep Batch: 312336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	50.0	41.9		ug/L		84	58 - 111
1,2,4,5-Tetrachlorobenzene	50.0	36.3		ug/L		73	36 - 106
1,2,4-Trichlorobenzene	50.0	37.4		ug/L		75	44 - 142
1,2-Dichlorobenzene	50.0	41.3		ug/L		83	36 - 95
1,2-Diphenylhydrazine	50.0	47.6		ug/L		95	57 - 127
1,3-Dichlorobenzene	50.0	36.6		ug/L		73	32 - 95
1,4-Dichlorobenzene	50.0	39.5		ug/L		79	33 - 92
1,4-Dioxane	50.0	20.4		ug/L		41	30 - 60
1-Methylnaphthalene	50.0	44.5		ug/L		89	53 - 105
1-Methylphenanthrene	50.0	47.9		ug/L		96	70 - 114
2,2'-oxybis[1-chloropropane]	50.0	32.0		ug/L		64	48 - 110
2,3,4,6-Tetrachlorophenol	50.0	39.1		ug/L		78	61 - 117
2,3-Dichloroaniline	50.0	42.7		ug/L		85	59 - 116
2,4,5-Trichlorophenol	50.0	46.6		ug/L		93	67 - 122
2,4,6-Trichlorophenol	50.0	42.5		ug/L		85	37 - 144
2,4-Dichlorophenol	50.0	41.9		ug/L		84	39 - 135
2,4-Dimethylphenol	50.0	42.6		ug/L		85	32 - 120
2,4-Dinitrophenol	100	92.1		ug/L		92	10 - 191
2,4-Dinitrotoluene	50.0	55.3		ug/L		111	39 - 139
2,6-Dichlorophenol	50.0	41.9		ug/L		84	72 - 113
2,6-Dinitrotoluene	50.0	46.8		ug/L		94	50 - 158
2-Chloronaphthalene	50.0	39.7		ug/L		79	60 - 120
2-Chlorophenol	50.0	38.4		ug/L		77	23 - 134
2-Methylnaphthalene	50.0	39.6		ug/L		79	44 - 111
2-Methylphenol	50.0	38.7		ug/L		77	52 - 105
2-Nitroaniline	50.0	51.3		ug/L		103	60 - 125
2-Nitrophenol	50.0	45.0		ug/L		90	29 - 182
3,3'-Dichlorobenzidine	100	83.6		ug/L		84	10 - 200
3-Nitroaniline	50.0	46.4		ug/L		93	58 - 114
4,6-Dinitro-2-methylphenol	100	106		ug/L		106	10 - 181
4-Bromophenyl-phenylether	50.0	42.7		ug/L		85	53 - 127
4-Chloro-3-methylphenol	50.0	44.3		ug/L		89	22 - 147
4-Chloroaniline	50.0	32.4		ug/L		65	39 - 104
4-Chlorophenyl-phenylether	50.0	42.2		ug/L		84	25 - 158
4-Methylphenol	50.0	31.4		ug/L		63	47 - 96
4-Nitroaniline	50.0	48.0		ug/L		96	59 - 111
4-Nitrophenol	100	53.2		ug/L		53	10 - 132
Acenaphthene	50.0	46.0		ug/L		92	47 - 145
Acenaphthylene	50.0	45.4		ug/L		91	33 - 145
Acetophenone	50.0	44.8		ug/L		90	56 - 108
Aniline	50.0	30.9		ug/L		62	26 - 95
Anthracene	50.0	51.1		ug/L		102	27 - 133
a-Terpineol	50.0	39.3		ug/L		79	65 - 117
Benzidine	100	34.4	J	ug/L		34	10 - 72
Benzo[a]anthracene	50.0	46.4		ug/L		93	33 - 143
Benzo[a]pyrene	50.0	51.1		ug/L		102	17 - 163
Benzo[b]fluoranthene	50.0	53.5		ug/L		107	24 - 159
Benzo[g,h,i]perylene	50.0	49.2		ug/L		98	10 - 200

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-312336/2-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[k]fluoranthene	50.0	46.1		ug/L		92	11 - 162
Benzyl alcohol	50.0	39.7		ug/L		79	38 - 104
Bis(2-chloroethoxy)methane	50.0	42.4		ug/L		85	33 - 184
Bis(2-chloroethyl)ether	50.0	43.4		ug/L		87	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	49.8		ug/L		100	10 - 158
Butylbenzylphthalate	50.0	42.9		ug/L		86	10 - 152
Carbazole	50.0	50.4		ug/L		101	67 - 121
Chrysene	50.0	43.7		ug/L		87	17 - 168
Dibenz(a,h)anthracene	50.0	51.1		ug/L		102	10 - 200
Dibenzofuran	50.0	45.4		ug/L		91	64 - 106
Diethylphthalate	50.0	46.1		ug/L		92	10 - 120
Dimethylphthalate	50.0	39.4		ug/L		79	10 - 120
Di-n-butyl phthalate	50.0	53.4		ug/L		107	10 - 120
Di-n-octyl phthalate	50.0	62.0		ug/L		124	10 - 146
Diphenyl ether	50.0	45.4		ug/L		91	59 - 105
Fluoranthene	50.0	46.0		ug/L		92	26 - 137
Fluorene	50.0	46.4		ug/L		93	59 - 121
Hexachlorobenzene	50.0	36.7		ug/L		73	10 - 152
Hexachlorobutadiene	50.0	31.0		ug/L		62	24 - 120
Hexachlorocyclopentadiene	50.0	23.0		ug/L		46	10 - 67
Hexachloroethane	50.0	37.7		ug/L		75	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	55.2		ug/L		110	10 - 171
Isophorone	50.0	43.3		ug/L		87	21 - 196
Naphthalene	50.0	40.8		ug/L		82	21 - 133
n-Decane	50.0	24.8		ug/L		50	16 - 110
n-Docosane	50.0	46.0		ug/L		92	53 - 177
n-Eicosane	50.0	44.1		ug/L		88	62 - 154
n-Hexadecane	50.0	38.2		ug/L		76	43 - 133
Nitrobenzene	50.0	41.3		ug/L		83	35 - 180
N-Nitrosodimethylamine	50.0	20.3		ug/L		41	38 - 74
N-Nitrosodi-n-propylamine	50.0	43.3		ug/L		87	10 - 200
N-Nitrosodiphenylamine	42.5	42.2		ug/L		99	70 - 121
n-Octadecane	50.0	41.5		ug/L		83	55 - 138
n-Tetradecane	50.0	33.0		ug/L		66	26 - 140
Pentachlorophenol	100	72.6		ug/L		73	14 - 176
Phenanthrene	50.0	48.3		ug/L		97	54 - 120
Phenol	50.0	19.8		ug/L		40	10 - 120
Pyrene	50.0	45.2		ug/L		90	52 - 120
Pyridine	100	39.9		ug/L		40	18 - 72

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*66*		*10 - 150*
2-Fluorobiphenyl (Surr)	*73*		*32 - 115*
2-Fluorophenol (Surr)	*45*		*10 - 83*
Nitrobenzene-d5 (Surr)	*70*		*41 - 111*
Phenol-d5 (Surr)	*35*		*10 - 59*
p-Terphenyl-d14 (Surr)	*72*		*37 - 140*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-312336/4-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312336

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
N-Nitrosodiethylamine			50.0	38.1		ug/L		76	68 - 107		
N-Nitrosodi-n-butylamine			50.0	40.9		ug/L		82	57 - 101		
N-Nitrosopyrrolidine			50.0	39.9		ug/L		80	61 - 103		
o-Toluidine			50.0	35.7		ug/L		71	50 - 97		
Pentachlorobenzene			50.0	37.0		ug/L		74	31 - 116		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*58*		*10 - 150*
2-Fluorobiphenyl (Surr)	*80*		*32 - 115*
2-Fluorophenol (Surr)	*42*		*10 - 83*
Nitrobenzene-d5 (Surr)	*75*		*41 - 111*
Phenol-d5 (Surr)	*32*		*10 - 59*
p-Terphenyl-d14 (Surr)	*80*		*37 - 140*

Lab Sample ID: LCSD 410-312336/3-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312336

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			50.0	46.0		ug/L		92	58 - 111	9	30
1,2,4,5-Tetrachlorobenzene			50.0	37.8		ug/L		76	36 - 106	4	30
1,2,4-Trichlorobenzene			50.0	39.6		ug/L		79	44 - 142	6	30
1,2-Dichlorobenzene			50.0	44.4		ug/L		89	36 - 95	7	30
1,2-Diphenylhydrazine			50.0	51.0		ug/L		102	57 - 127	7	30
1,3-Dichlorobenzene			50.0	39.9		ug/L		80	32 - 95	9	30
1,4-Dichlorobenzene			50.0	42.7		ug/L		85	33 - 92	8	30
1,4-Dioxane			50.0	17.9		ug/L		36	30 - 60	13	30
1-Methylnaphthalene			50.0	46.3		ug/L		93	53 - 105	4	30
1-Methylphenanthrene			50.0	52.2		ug/L		104	70 - 114	9	30
2,2'-oxybis[1-chloropropane]			50.0	34.6		ug/L		69	48 - 110	8	30
2,3,4,6-Tetrachlorophenol			50.0	39.2		ug/L		78	61 - 117	0	30
2,3-Dichloroaniline			50.0	48.0		ug/L		96	59 - 116	12	30
2,4,5-Trichlorophenol			50.0	46.2		ug/L		92	67 - 122	1	30
2,4,6-Trichlorophenol			50.0	43.7		ug/L		87	37 - 144	3	30
2,4-Dichlorophenol			50.0	43.2		ug/L		86	39 - 135	3	30
2,4-Dimethylphenol			50.0	45.5		ug/L		91	32 - 120	7	30
2,4-Dinitrophenol			100	91.4		ug/L		91	10 - 191	1	30
2,4-Dinitrotoluene			50.0	58.0		ug/L		116	39 - 139	5	30
2,6-Dichlorophenol			50.0	45.4		ug/L		91	72 - 113	8	30
2,6-Dinitrotoluene			50.0	49.1		ug/L		98	50 - 158	5	30
2-Chloronaphthalene			50.0	41.3		ug/L		83	60 - 120	4	24
2-Chlorophenol			50.0	41.9		ug/L		84	23 - 134	9	30
2-Methylnaphthalene			50.0	43.2		ug/L		86	44 - 111	9	30
2-Methylphenol			50.0	40.8		ug/L		82	52 - 105	5	30
2-Nitroaniline			50.0	53.6		ug/L		107	60 - 125	4	30
2-Nitrophenol			50.0	49.2		ug/L		98	29 - 182	9	30
3,3'-Dichlorobenzidine			100	91.3		ug/L		91	10 - 200	9	30
3-Nitroaniline			50.0	50.3		ug/L		101	58 - 114	8	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-312336/3-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312336

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	100	107		ug/L		107	10 - 181	2	30
4-Bromophenyl-phenylether	50.0	43.0		ug/L		86	53 - 127	1	30
4-Chloro-3-methylphenol	50.0	48.4		ug/L		97	22 - 147	9	30
4-Chloroaniline	50.0	36.9		ug/L		74	39 - 104	13	30
4-Chlorophenyl-phenylether	50.0	44.3		ug/L		89	25 - 158	5	30
4-Methylphenol	50.0	30.4		ug/L		61	47 - 96	3	30
4-Nitroaniline	50.0	51.2		ug/L		102	59 - 111	6	30
4-Nitrophenol	100	49.8		ug/L		50	10 - 132	7	30
Acenaphthene	50.0	47.9		ug/L		96	47 - 145	4	30
Acenaphthylene	50.0	48.3		ug/L		97	33 - 145	6	30
Acetophenone	50.0	48.7		ug/L		97	56 - 108	8	30
Aniline	50.0	39.0		ug/L		78	26 - 95	23	30
Anthracene	50.0	53.3		ug/L		107	27 - 133	4	30
a-Terpineol	50.0	41.7		ug/L		83	65 - 117	6	30
Benzidine	100	25.4	J	ug/L		25	10 - 72	30	30
Benzo[a]anthracene	50.0	51.0		ug/L		102	33 - 143	9	30
Benzo[a]pyrene	50.0	53.0		ug/L		106	17 - 163	4	30
Benzo[b]fluoranthene	50.0	57.8		ug/L		116	24 - 159	8	30
Benzo[g,h,i]perylene	50.0	54.3		ug/L		109	10 - 200	10	30
Benzo[k]fluoranthene	50.0	46.9		ug/L		94	11 - 162	2	30
Benzyl alcohol	50.0	44.5		ug/L		89	38 - 104	11	30
Bis(2-chloroethoxy)methane	50.0	44.6		ug/L		89	33 - 184	5	30
Bis(2-chloroethyl)ether	50.0	46.6		ug/L		93	12 - 158	7	30
Bis(2-ethylhexyl) phthalate	50.0	55.7		ug/L		111	10 - 158	11	30
Butylbenzylphthalate	50.0	45.6		ug/L		91	10 - 152	6	30
Carbazole	50.0	52.8		ug/L		106	67 - 121	5	30
Chrysene	50.0	49.1		ug/L		98	17 - 168	12	30
Dibenz(a,h)anthracene	50.0	59.2		ug/L		118	10 - 200	15	30
Dibenzofuran	50.0	47.1		ug/L		94	64 - 106	4	30
Diethylphthalate	50.0	49.1		ug/L		98	10 - 120	6	30
Dimethylphthalate	50.0	43.6		ug/L		87	10 - 120	10	30
Di-n-butyl phthalate	50.0	57.1		ug/L		114	10 - 120	7	30
Di-n-octyl phthalate	50.0	67.9		ug/L		136	10 - 146	9	30
Diphenyl ether	50.0	47.4		ug/L		95	59 - 105	4	30
Fluoranthene	50.0	49.7		ug/L		99	26 - 137	8	30
Fluorene	50.0	49.4		ug/L		99	59 - 121	6	30
Hexachlorobenzene	50.0	41.0		ug/L		82	10 - 152	11	30
Hexachlorobutadiene	50.0	34.5		ug/L		69	24 - 120	11	30
Hexachlorocyclopentadiene	50.0	25.0		ug/L		50	10 - 67	8	30
Hexachloroethane	50.0	43.6		ug/L		87	40 - 120	14	30
Indeno[1,2,3-cd]pyrene	50.0	58.2		ug/L		116	10 - 171	5	30
Isophorone	50.0	46.9		ug/L		94	21 - 196	8	30
Naphthalene	50.0	43.5		ug/L		87	21 - 133	6	30
n-Decane	50.0	29.2		ug/L		58	16 - 110	16	30
n-Docosane	50.0	50.6		ug/L		101	53 - 177	10	30
n-Eicosane	50.0	50.3		ug/L		101	62 - 154	13	30
n-Hexadecane	50.0	43.2		ug/L		86	43 - 133	12	30
Nitrobenzene	50.0	43.8		ug/L		88	35 - 180	6	30
N-Nitrosodimethylamine	50.0	23.8		ug/L		48	38 - 74	16	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-312336/3-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312336

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodi-n-propylamine			50.0	45.8		ug/L		92	10 - 200	6	30
N-Nitrosodiphenylamine			42.5	43.4		ug/L		102	70 - 121	3	30
n-Octadecane			50.0	46.3		ug/L		93	55 - 138	11	30
n-Tetradecane			50.0	35.2		ug/L		70	26 - 140	6	30
Pentachlorophenol			100	70.5		ug/L		71	14 - 176	3	30
Phenanthrene			50.0	50.6		ug/L		101	54 - 120	5	30
Phenol			50.0	19.3		ug/L		39	10 - 120	2	30
Pyrene			50.0	48.5		ug/L		97	52 - 120	7	30
Pyridine			100	45.9		ug/L		46	18 - 72	14	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*71*		*10 - 150*
2-Fluorobiphenyl (Surr)	*77*		*32 - 115*
2-Fluorophenol (Surr)	*44*		*10 - 83*
Nitrobenzene-d5 (Surr)	*76*		*41 - 111*
Phenol-d5 (Surr)	*33*		*10 - 59*
p-Terphenyl-d14 (Surr)	*86*		*37 - 140*

Lab Sample ID: LCSD 410-312336/5-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312336

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodiethylamine			50.0	35.6		ug/L		71	68 - 107	7	30
N-Nitrosodi-n-butylamine			50.0	37.6		ug/L		75	57 - 101	8	30
N-Nitrosopyrrolidine			50.0	35.7		ug/L		71	61 - 103	11	30
o-Toluidine			50.0	31.9		ug/L		64	50 - 97	11	30
Pentachlorobenzene			50.0	31.0		ug/L		62	31 - 116	18	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*54*		*10 - 150*
2-Fluorobiphenyl (Surr)	*68*		*32 - 115*
2-Fluorophenol (Surr)	*32*		*10 - 83*
Nitrobenzene-d5 (Surr)	*65*		*41 - 111*
Phenol-d5 (Surr)	*24*		*10 - 59*
p-Terphenyl-d14 (Surr)	*80*		*37 - 140*

Lab Sample ID: MB 410-312339/1-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzoic acid	ND		30	4.0	ug/L		10/31/22 15:47	11/02/22 01:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*25*		*10 - 150*	*10/31/22 15:47*	*11/02/22 01:56*	*1*
2-Fluorobiphenyl (Surr)	*71*		*32 - 115*	*10/31/22 15:47*	*11/02/22 01:56*	*1*
2-Fluorophenol (Surr)	*28*		*10 - 83*	*10/31/22 15:47*	*11/02/22 01:56*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-312339/1-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312339

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		41 - 111	10/31/22 15:47	11/02/22 01:56	1
Phenol-d5 (Surr)	21		10 - 59	10/31/22 15:47	11/02/22 01:56	1
p-Terphenyl-d14 (Surr)	77		37 - 140	10/31/22 15:47	11/02/22 01:56	1

Lab Sample ID: LCS 410-312339/2-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312339

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzoic acid			50.0	9.19	J	ug/L		18	10 - 96		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromofenol (Surr)	70		10 - 150
2-Fluorobiphenyl (Surr)	83		32 - 115
2-Fluorophenol (Surr)	44		10 - 83
Nitrobenzene-d5 (Surr)	78		41 - 111
Phenol-d5 (Surr)	34		10 - 59
p-Terphenyl-d14 (Surr)	92		37 - 140

Lab Sample ID: LCSD 410-312339/3-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312339

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzoic acid			50.0	12.4	J	ug/L		25	10 - 96	30	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromofenol (Surr)	70		10 - 150
2-Fluorobiphenyl (Surr)	82		32 - 115
2-Fluorophenol (Surr)	48		10 - 83
Nitrobenzene-d5 (Surr)	78		41 - 111
Phenol-d5 (Surr)	36		10 - 59
p-Terphenyl-d14 (Surr)	88		37 - 140

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-310570/1-A
Matrix: Water
Analysis Batch: 310575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/26/22 08:12	10/26/22 14:08	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/26/22 08:12	10/26/22 14:08	1
Methane (1C)	ND		5.0	3.0	ug/L		10/26/22 08:12	10/26/22 14:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Propene (1C)	115		43 - 133	10/26/22 08:12	10/26/22 14:08	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 410-310570/2-A
Matrix: Water
Analysis Batch: 310575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310570

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane (1C)			61.7	66.6		ug/L		108	85 - 115		
Ethene (1C)			58.3	63.0		ug/L		108	83 - 115		
Methane (1C)			59.8	67.8		ug/L		114	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*113*		*43 - 133*

Lab Sample ID: LCSD 410-310570/3-A
Matrix: Water
Analysis Batch: 310575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 310570

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)			61.7	66.1		ug/L		107	85 - 115	1	20
Ethene (1C)			58.3	63.0		ug/L		108	83 - 115	0	20
Methane (1C)			59.8	67.5		ug/L		113	85 - 115	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene (1C)	*112*		*43 - 133*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-312388/5
Matrix: Water
Analysis Batch: 312388

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			10/31/22 11:39	1
Chloride	ND		1.5	0.60	mg/L			10/31/22 11:39	1

Lab Sample ID: LCS 410-312388/3
Matrix: Water
Analysis Batch: 312388

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			7.50	7.81		mg/L		104	90 - 110		
Chloride			3.00	2.89		mg/L		96	90 - 110		

Lab Sample ID: LCSD 410-312388/4
Matrix: Water
Analysis Batch: 312388

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			7.50	7.80		mg/L		104	90 - 110	0	20
Chloride			3.00	2.89		mg/L		96	90 - 110	0	20

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 410-103228-1 MS
Matrix: Groundwater
Analysis Batch: 312388

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	140		250	411		mg/L		108	90 - 110

Lab Sample ID: 410-103228-1 DU
Matrix: Groundwater
Analysis Batch: 312388

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	140		141		mg/L		0.8	15

Lab Sample ID: MB 410-312755/5
Matrix: Water
Analysis Batch: 312755

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			11/01/22 10:01	1
Chloride	ND		1.5	0.60	mg/L			11/01/22 10:01	1

Lab Sample ID: LCS 410-312755/3
Matrix: Water
Analysis Batch: 312755

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	7.08		mg/L		94	90 - 110
Chloride	3.00	2.72		mg/L		91	90 - 110

Lab Sample ID: LCSD 410-312755/4
Matrix: Water
Analysis Batch: 312755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	7.09		mg/L		94	90 - 110	0	20
Chloride	3.00	2.72		mg/L		91	90 - 110	0	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-310928/1-A
Matrix: Water
Analysis Batch: 311499

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 310928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		10/27/22 04:32	10/28/22 00:30	1
Aluminum	ND		30	12	ug/L		10/27/22 04:32	10/28/22 00:30	1
Arsenic	ND		2.0	0.68	ug/L		10/27/22 04:32	10/28/22 00:30	1
Barium	ND		2.0	0.75	ug/L		10/27/22 04:32	10/28/22 00:30	1
Beryllium	ND		0.50	0.12	ug/L		10/27/22 04:32	10/28/22 00:30	1
Cadmium	ND		0.50	0.15	ug/L		10/27/22 04:32	10/28/22 00:30	1
Calcium	ND		120	50	ug/L		10/27/22 04:32	10/28/22 00:30	1
Chromium	ND		2.0	0.33	ug/L		10/27/22 04:32	10/28/22 00:30	1
Cobalt	ND		0.50	0.16	ug/L		10/27/22 04:32	10/28/22 00:30	1
Copper	ND		1.0	0.36	ug/L		10/27/22 04:32	10/28/22 00:30	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-310928/1-A
Matrix: Water
Analysis Batch: 311499

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 310928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50	20	ug/L		10/27/22 04:32	10/28/22 00:30	1
Lead	ND		0.50	0.071	ug/L		10/27/22 04:32	10/28/22 00:30	1
Magnesium	ND		50	16	ug/L		10/27/22 04:32	10/28/22 00:30	1
Manganese	ND		2.0	0.95	ug/L		10/27/22 04:32	10/28/22 00:30	1
Nickel	ND		1.0	0.40	ug/L		10/27/22 04:32	10/28/22 00:30	1
Potassium	ND		200	65	ug/L		10/27/22 04:32	10/28/22 00:30	1
Selenium	ND		1.0	0.28	ug/L		10/27/22 04:32	10/28/22 00:30	1
Silver	ND		0.50	0.10	ug/L		10/27/22 04:32	10/28/22 00:30	1
Sodium	ND		200	90	ug/L		10/27/22 04:32	10/28/22 00:30	1
Thallium	ND		0.50	0.13	ug/L		10/27/22 04:32	10/28/22 00:30	1
Vanadium	ND		4.0	0.79	ug/L		10/27/22 04:32	10/28/22 00:30	1
Zinc	ND		10	4.0	ug/L		10/27/22 04:32	10/28/22 00:30	1

Lab Sample ID: LCS 410-310928/2-A
Matrix: Water
Analysis Batch: 311499

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 310928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	95.2		ug/L		95	85 - 115
Aluminum	5000	4540		ug/L		91	85 - 115
Arsenic	500	477		ug/L		95	85 - 115
Barium	500	487		ug/L		97	85 - 115
Beryllium	50.0	47.2		ug/L		94	85 - 115
Cadmium	50.0	49.5		ug/L		99	85 - 115
Calcium	5000	4680		ug/L		94	85 - 115
Chromium	500	463		ug/L		93	85 - 115
Cobalt	500	464		ug/L		93	85 - 115
Copper	500	461		ug/L		92	85 - 115
Iron	5000	4720		ug/L		94	85 - 115
Lead	50.0	47.9		ug/L		96	85 - 115
Magnesium	5000	4660		ug/L		93	85 - 115
Manganese	500	475		ug/L		95	85 - 115
Nickel	500	472		ug/L		94	85 - 115
Potassium	5000	4770		ug/L		95	85 - 115
Selenium	100	96.8		ug/L		97	85 - 115
Silver	50.0	50.9		ug/L		102	85 - 115
Sodium	5000	4550		ug/L		91	85 - 115
Thallium	100	96.1		ug/L		96	85 - 115
Vanadium	500	467		ug/L		93	85 - 115
Zinc	500	473		ug/L		95	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-311514/1-A
Matrix: Water
Analysis Batch: 311783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/28/22 05:57	10/28/22 14:14	1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 410-311514/2-A
Matrix: Water
Analysis Batch: 311783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311514

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00100	0.00105		mg/L		105	85 - 115		

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-311428/1
Matrix: Water
Analysis Batch: 311428

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			10/27/22 17:45	1

Lab Sample ID: LCS 410-311428/2
Matrix: Water
Analysis Batch: 311428

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
HEM (Oil & Grease)			40.0	36.30		mg/L		91	78 - 114		

Lab Sample ID: LCSD 410-311428/3
Matrix: Water
Analysis Batch: 311428

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM (Oil & Grease)			40.0	34.80		mg/L		87	78 - 114	4	13

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-310910/3
Matrix: Water
Analysis Batch: 310910

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			10/26/22 20:50	1

Lab Sample ID: LCS 410-310910/4
Matrix: Water
Analysis Batch: 310910

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Turbidity			10.0	9.0		NTU		90	90 - 104		

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-311719/5
Matrix: Water
Analysis Batch: 311719

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			10/27/22 20:12	1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-311719/10
Matrix: Water
Analysis Batch: 311719

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	189	175		mg/L		93	82 - 106

Lab Sample ID: LCSD 410-311719/11
Matrix: Water
Analysis Batch: 311719

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	189	178		mg/L		94	82 - 106	2	10

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-310941/21
Matrix: Water
Analysis Batch: 310941

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			10/26/22 11:48	1

Lab Sample ID: LCS 410-310941/22
Matrix: Water
Analysis Batch: 310941

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Hardness	40.0	39.1		mg/L		98	91 - 108

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-311720/5
Matrix: Water
Analysis Batch: 311720

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			10/27/22 20:12	1

Lab Sample ID: LCS 410-311720/6
Matrix: Water
Analysis Batch: 311720

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1400		umhos/cm		99	97 - 103

Lab Sample ID: LCSD 410-311720/7
Matrix: Water
Analysis Batch: 311720

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance	1410	1400		umhos/cm		99	97 - 103	0	5

Method: 2540C - 2015 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-310518/1
Matrix: Water
Analysis Batch: 310518

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			10/26/22 06:53	1

Lab Sample ID: LCS 410-310518/2
Matrix: Water
Analysis Batch: 310518

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	198		mg/L		99	72 - 127

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-310821/1
Matrix: Water
Analysis Batch: 310821

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.0	1.0	mg/L			10/26/22 15:33	1

Lab Sample ID: LCS 410-310821/2
Matrix: Water
Analysis Batch: 310821

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	143		mg/L		95	89 - 105

Method: 2540F-2015 - Solids, Settleable

Lab Sample ID: MB 410-310765/1
Matrix: Water
Analysis Batch: 310765

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			10/26/22 13:48	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-311148/2-A
Matrix: Water
Analysis Batch: 311704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		10/27/22 10:20	10/28/22 09:33	1

Lab Sample ID: LCS 410-311148/1-A
Matrix: Water
Analysis Batch: 311704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	3.69	3.85		mg/L		104	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-310619/2-A
Matrix: Water
Analysis Batch: 311003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		10/26/22 09:35	10/27/22 06:24	1

Lab Sample ID: LCS 410-310619/1-A
Matrix: Water
Analysis Batch: 311003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as PO4	4.07	4.30		mg/L		106	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 410-310546/4
Matrix: Water
Analysis Batch: 310546

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			10/26/22 06:38	1

Lab Sample ID: LCS 410-310546/5
Matrix: Water
Analysis Batch: 310546

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	500	511		mg/L		102	94 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-312680/33
Matrix: Water
Analysis Batch: 312680

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/01/22 07:46	1

Lab Sample ID: MB 410-312680/72
Matrix: Water
Analysis Batch: 312680

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/01/22 09:43	1

Lab Sample ID: LCS 410-312680/70
Matrix: Water
Analysis Batch: 312680

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.245		mg/L		98	90 - 110

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 410-312680/71
Matrix: Water
Analysis Batch: 312680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total			0.250	0.243		mg/L		97	90 - 110	1	6

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-311724/8
Matrix: Water
Analysis Batch: 311724

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		S.U.		100	95 - 105		

Lab Sample ID: LCSD 410-311724/9
Matrix: Water
Analysis Batch: 311724

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH			7.00	7.0		S.U.		100	95 - 105	0	3

Method: 5210 B-2011 - BOD, 5-Day

Lab Sample ID: SCB 410-312395/5
Matrix: Water
Analysis Batch: 312395

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.943		0.0000010	0.0000010	mg/L			10/26/22 14:24	1

Lab Sample ID: USB 410-312395/2
Matrix: Water
Analysis Batch: 312395

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.137		0.0000010	0.0000010	mg/L			10/26/22 14:24	1

Lab Sample ID: LCS 410-312395/27
Matrix: Water
Analysis Batch: 312395

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	191		mg/L		97	85 - 115		

Lab Sample ID: LCS 410-312395/4
Matrix: Water
Analysis Batch: 312395

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	179		mg/L		90	85 - 115		

GC/MS VOA

Analysis Batch: 310759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	624.1	
410-103228-2	QAQC_TB	Total/NA	Water	624.1	
MB 410-310759/5	Method Blank	Total/NA	Water	624.1	
LCS 410-310759/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-310759/1004	Lab Control Sample	Total/NA	Water	624.1	
410-103228-1 MS	ORS-EFFLUENT	Total/NA	Groundwater	624.1	
410-103228-1 MSD	ORS-EFFLUENT	Total/NA	Groundwater	624.1	

Analysis Batch: 312990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-2	QAQC_TB	Total/NA	Water	8260D	
MB 410-312990/6	Method Blank	Total/NA	Water	8260D	
LCS 410-312990/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 313828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	8260D	
MB 410-313828/6	Method Blank	Total/NA	Water	8260D	
LCS 410-313828/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 312336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	625.1	
MB 410-312336/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-312336/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCS 410-312336/4-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-312336/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
LCSD 410-312336/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Prep Batch: 312339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1 - RE	ORS-EFFLUENT	Total/NA	Groundwater	625.1	
MB 410-312339/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-312339/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-312339/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 312567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	625.1	312336
410-103228-1 - RE	ORS-EFFLUENT	Total/NA	Groundwater	625.1	312339
MB 410-312336/1-A	Method Blank	Total/NA	Water	625.1	312336
MB 410-312339/1-A	Method Blank	Total/NA	Water	625.1	312339
LCS 410-312336/2-A	Lab Control Sample	Total/NA	Water	625.1	312336
LCS 410-312336/4-A	Lab Control Sample	Total/NA	Water	625.1	312336
LCS 410-312339/2-A	Lab Control Sample	Total/NA	Water	625.1	312339
LCSD 410-312336/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	312336
LCSD 410-312336/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	312336
LCSD 410-312339/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	312339

GC VOA

Prep Batch: 310570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	RSK-175	
MB 410-310570/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-310570/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-310570/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 310575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	RSK-175	310570
MB 410-310570/1-A	Method Blank	Total/NA	Water	RSK-175	310570
LCS 410-310570/2-A	Lab Control Sample	Total/NA	Water	RSK-175	310570
LCSD 410-310570/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	310570

HPLC/IC

Analysis Batch: 312388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-312388/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-312388/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-312388/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	
410-103228-1 MS	ORS-EFFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
410-103228-1 DU	ORS-EFFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	

Analysis Batch: 312755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-312755/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-312755/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-312755/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 310928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	
MB 410-310928/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-310928/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Analysis Batch: 311499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	310928
MB 410-310928/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	310928
LCS 410-310928/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	310928

Prep Batch: 311514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	245.1	
MB 410-311514/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-311514/2-A	Lab Control Sample	Total/NA	Water	245.1	

Metals

Analysis Batch: 311783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	245.1	311514
MB 410-311514/1-A	Method Blank	Total/NA	Water	245.1	311514
LCS 410-311514/2-A	Lab Control Sample	Total/NA	Water	245.1	311514

Analysis Batch: 311819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	310928

General Chemistry

Analysis Batch: 302095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	SM 2330B	

Analysis Batch: 310518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	2540C - 2015	
MB 410-310518/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-310518/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 310546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	410.4	
MB 410-310546/4	Method Blank	Total/NA	Water	410.4	
LCS 410-310546/5	Lab Control Sample	Total/NA	Water	410.4	

Prep Batch: 310619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	365.1	
MB 410-310619/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-310619/1-A	Lab Control Sample	Total/NA	Water	365.1	

Analysis Batch: 310765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	2540F-2015	
MB 410-310765/1	Method Blank	Total/NA	Water	2540F-2015	

Analysis Batch: 310821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	2540D-2015	
MB 410-310821/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-310821/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 310910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	180.1	
MB 410-310910/3	Method Blank	Total/NA	Water	180.1	
LCS 410-310910/4	Lab Control Sample	Total/NA	Water	180.1	

General Chemistry

Analysis Batch: 310941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	2340C-2011	
MB 410-310941/21	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-310941/22	Lab Control Sample	Total/NA	Water	2340C-2011	

Analysis Batch: 310977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	353.2	

Analysis Batch: 311003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	365.1	310619
MB 410-310619/2-A	Method Blank	Total/NA	Water	365.1	310619
LCS 410-310619/1-A	Lab Control Sample	Total/NA	Water	365.1	310619

Prep Batch: 311148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	351.2	
MB 410-311148/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-311148/1-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 311428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	1664A	
MB 410-311428/1	Method Blank	Total/NA	Water	1664A	
LCS 410-311428/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-311428/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 311704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	351.2	311148
MB 410-311148/2-A	Method Blank	Total/NA	Water	351.2	311148
LCS 410-311148/1-A	Lab Control Sample	Total/NA	Water	351.2	311148

Analysis Batch: 311719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	2320B-2011	
MB 410-311719/5	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-311719/10	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-311719/11	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 311720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	2510B-2011	
MB 410-311720/5	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-311720/6	Lab Control Sample	Total/NA	Water	2510B-2011	
LCSD 410-311720/7	Lab Control Sample Dup	Total/NA	Water	2510B-2011	

Analysis Batch: 311724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	4500 H+ B-2011	
LCS 410-311724/8	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

General Chemistry (Continued)

Analysis Batch: 311724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-311724/9	Lab Control Sample Dup	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 312395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	5210 B-2011	
SCB 410-312395/5	Method Blank	Total/NA	Water	5210 B-2011	
USB 410-312395/2	Method Blank	Total/NA	Water	5210 B-2011	
LCS 410-312395/27	Lab Control Sample	Total/NA	Water	5210 B-2011	
LCS 410-312395/4	Lab Control Sample	Total/NA	Water	5210 B-2011	

Analysis Batch: 312680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103228-1	ORS-EFFLUENT	Total/NA	Groundwater	420.4	
MB 410-312680/33	Method Blank	Total/NA	Water	420.4	
MB 410-312680/72	Method Blank	Total/NA	Water	420.4	
LCS 410-312680/70	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-312680/71	Lab Control Sample Dup	Total/NA	Water	420.4	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103228-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-EFFLUENT
Lab Sample ID: 410-103228-1
Date Collected: 10/25/22 09:51
Matrix: Groundwater
Date Received: 10/25/22 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	310759	UJML	ELLE	10/26/22 16:05
Total/NA	Analysis	8260D		1	313828	USEJ	ELLE	11/04/22 18:08
Total/NA	Prep	625.1			312336	QJZ6	ELLE	10/31/22 15:44
Total/NA	Analysis	625.1		1	312567	W6XI	ELLE	11/02/22 02:18
Total/NA	Prep	625.1	RE		312339	QJZ6	ELLE	10/31/22 15:47
Total/NA	Analysis	625.1	RE	1	312567	W6XI	ELLE	11/02/22 03:01
Total/NA	Prep	RSK-175			310570	SE2A	ELLE	10/26/22 08:12
Total/NA	Analysis	RSK-175		1	310575	SE2A	ELLE	10/26/22 17:54
Total/NA	Analysis	EPA 300.0 R2.1		50	312388	L4QM	ELLE	10/31/22 14:55
Total/NA	Analysis	EPA 300.0 R2.1		200	312755	L4QM	ELLE	11/01/22 16:12
Total Recoverable	Prep	200.8 Rev 5.4			310928	UAMX	ELLE	10/27/22 04:32
Total Recoverable	Analysis	200.8 Rev 5.4		1	311499	F7JF	ELLE	10/28/22 00:56
Total Recoverable	Prep	200.8 Rev 5.4			310928	UAMX	ELLE	10/27/22 04:32
Total Recoverable	Analysis	200.8 Rev 5.4		10	311819	S4PD	ELLE	10/28/22 12:52
Total/NA	Prep	245.1			311514	UAMX	ELLE	10/28/22 05:57
Total/NA	Analysis	245.1		1	311783	UEFS	ELLE	10/28/22 14:24
Total/NA	Analysis	1664A		1	311428	QT6L	ELLE	10/27/22 17:45
Total/NA	Analysis	180.1		1	310910	DI9Q	ELLE	10/26/22 20:50
Total/NA	Analysis	2320B-2011		1	311719	DI9Q	ELLE	10/27/22 22:46
Total/NA	Analysis	2340C-2011		10	310941	USAE	ELLE	10/26/22 13:25
Total/NA	Analysis	2510B-2011		1	311720	DI9Q	ELLE	10/27/22 22:46
Total/NA	Analysis	2540C - 2015		1	310518	M98K	ELLE	10/26/22 06:53
Total/NA	Analysis	2540D-2015		1	310821	UOCA	ELLE	10/26/22 15:33
Total/NA	Analysis	2540F-2015		1	310765	DI9Q	ELLE	10/26/22 13:48
Total/NA	Prep	351.2			311148	UNWS	ELLE	10/27/22 10:20 - 10/27/22 13:20 [1]
Total/NA	Analysis	351.2		1	311704	JCG7	ELLE	10/28/22 09:46
Total/NA	Analysis	353.2		1	310977	UKJF	ELLE	10/27/22 07:02
Total/NA	Prep	365.1			310619	CBM8	ELLE	10/26/22 09:35
Total/NA	Analysis	365.1		1	311003	CBM8	ELLE	10/27/22 06:29
Total/NA	Analysis	410.4		1	310546	USAE	ELLE	10/26/22 06:38
Total/NA	Analysis	420.4		1	312680	CBM8	ELLE	11/01/22 10:13
Total/NA	Analysis	4500 H+ B-2011		1	311724	DI9Q	ELLE	10/27/22 22:46
Total/NA	Analysis	5210 B-2011		1	312395	F8TI	ELLE	10/26/22 19:14
Total/NA	Analysis	SM 2330B		1	302095	USJM	ELLE	10/26/22 05:01

Client Sample ID: QAQC_TB
Lab Sample ID: 410-103228-2
Date Collected: 10/19/22 00:00
Matrix: Water
Date Received: 10/25/22 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	310759	UJML	ELLE	10/26/22 15:23
Total/NA	Analysis	8260D		1	312990	USEJ	ELLE	11/02/22 14:16

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103228-1
Project/Site: EMGPRP-31097

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103228-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

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
200.8 Rev 5.4	200.8 Rev 5.4	Groundwater	Silver
365.1	365.1	Groundwater	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile
624.1		Groundwater	Methyl iodide
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane
624.1		Groundwater	n-Propyl acetate
624.1		Groundwater	N-Propylbenzene

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103228-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	p-Isopropyltoluene
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103228-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	p-Isopropyltoluene
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
SM 2330B		Groundwater	Langelier Index

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103228-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	MCAWW	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C - 2015	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
2540F-2015	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	MCAWW	ELLE
420.4	Phenolics, Total Recoverable	MCAWW	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2011	BOD, 5-Day	SM	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103228-1
Project/Site: EMGPRP-31097

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-103228-1	ORS-EFFLUENT	Groundwater	10/25/22 09:51	10/25/22 20:00
410-103228-2	QAQC_TB	Water	10/19/22 00:00	10/25/22 20:00

Request/Chain of Custody

410-103228 Chain of Custody

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Acct. # 1343

EMES-Eurofins Agreement # A2604415

1 of 1

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.		
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097
Consultant PM:	Courtney Lind	P.O. #: 0172 0030Y080	WAL# 4847
Sampler:	TG	XOM PM:	Michael J Burghardt
Bill to:	☐ XOM ☑ Consultant		
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil/Sediment	Tissue	Water: Potable	Ground	NPDES	Surface	Other: Trip Blank	Total # of Containers	VOCs (624.1) MEK, Acetone, MTBE (H)	200.8, 245.1 (N)	625.1_PREC - (MOD) Priority Pollutants SVOCs	300_ORGFM_28D - (MOD) Chloride/Sulfate	SM5210B_Calc - BOD, 5-Day Only	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved (S)	351.2, 365.1, 410.4 (S)	2320B, 2510B, 2540C_SingleDry,	420.4 - Phenols (S)	353.2_Nitrite - Nitrogen, Nitrite	2540D_Single_Dry - TSS	SM2540F - Settleable Solids	Turbidity (180.1)	SM2330B - Local Method	2340C - Local Method (N)	Oil&Grease (1664A) (H)	RSK_175 Methane Ethane Ethene (H)	8015C TPH-DRO/ORO Standard TPH-DRO/ORO (H)	TPH-GRO (8015) #10598 (H)	Remarks
ORS-EFFLUENT	10/25/2022	9:51	X				X					27	6	1	2	1	1	1	2	2	1	1	1	1	1	1	1	2	2			
QAQC_TB	10/19/2022	--									X	4	4																			

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

For Lab Use Only: SF #: ; SCR #:

Turnaround Time Requested (TAT) (please check): Standard ☐ Rush ☑

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): (5 day) 4day 72hour 48hour 24hour

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	OTHER	
Type III (Reduced non-CLP/NJ Reduced)	☐	Standard with QC summary	
TX TRRP-13	☐		
NJ DKQP	☐		
NYSDEC Category	☐ A ☐ B		

EDD Format(s) Needed: EQuIS and Excel

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	10/25/2022	15:30	Stan King	10/25/22	15:30
2	Stan King	10/25/22	20:00			
3						
4						
5				[signature] -0.2	10/25/22	20:00

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt: -0.2 - 5.5 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

Not Frozen

SR

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-103228-1

Login Number: 103228

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Roth, Stephanie

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Matthew Mueller
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia New York 11749

Generated 11/17/2022 12:08:48 PM

JOB DESCRIPTION

EMGPRP-31097

JOB NUMBER

410-103227-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

myEOL

Table of Contents

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
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
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
F3	Duplicate RPD exceeds the control limit
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-103227-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-103227-1

Receipt
The samples were received on 10/25/2022 8:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 20 coolers at receipt time were -0.2°C, 0.2°C, 0.3°C, 0.3°C, 0.3°C, 1.2°C, 1.5°C, 2.4°C, 2.4°C, 2.7°C, 3.0°C, 3.0°C, 3.2°C, 3.7°C, 4.6°C, 5.1°C, 5.2°C, 5.2°C, 5.4°C and 5.5°C

Receipt Exceptions
The Langalier Index could not be calculated for the following sample due to the elevated TDS result.

RECEIVING_WATER-002 (410-103227-2)

GC/MS VOA
Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: ORS-INFLUENT (410-103227-1) and RECEIVING_WATER-002 (410-103227-2). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile , which are acid-labile compounds that degrade in an acidic medium.

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

GC/MS Semi VOA
Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 410-312567 recovered above the upper control limit for 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: ORS-INFLUENT (410-103227-1) and RECEIVING_WATER-002 (410-103227-2).

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

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

GC VOA
Method RSK_175: The method requirement for no headspace was not met for Methane. The following volatile sample was analyzed with significant headspace in the sample container(s): ORS-INFLUENT (410-103227-1). Significant headspace is defined as a bubble greater than 6 mm in diameter.

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

Diesel Range Organics
Method 8015C_DRO: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 6: ORS-INFLUENT (410-103227-1).This does not meet regulatory requirements.

Method 8015C_DRO: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 6: RECEIVING_WATER-002 (410-103227-2).This does not meet regulatory requirements.

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

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

Metals

Job ID: 410-103227-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

General Chemistry

Method 410.4: The following sample was diluted due to the nature of the sample matrix: RECEIVING_WATER-002 (410-103227-2). 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.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: ORS-INFLUENT

Lab Sample ID: 410-103227-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.51	J	1.0	0.20	ug/L	1		624.1	Total/NA
1,1-Dichloroethene	0.92	J	1.0	0.30	ug/L	1		624.1	Total/NA
1,2,4-Trimethylbenzene	13		1.0	0.20	ug/L	1		624.1	Total/NA
1,2-Dichloroethane	6.8		1.0	0.30	ug/L	1		624.1	Total/NA
1,2-Dichloroethene (total)	47		1.0	0.20	ug/L	1		624.1	Total/NA
1,3,5-Trimethylbenzene	5.9		1.0	0.20	ug/L	1		624.1	Total/NA
Benzene	260		1.0	0.20	ug/L	1		624.1	Total/NA
Chlorobenzene	0.59	J	1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	46		1.0	0.20	ug/L	1		624.1	Total/NA
Cyclohexane	58		1.0	0.30	ug/L	1		624.1	Total/NA
Ethylbenzene	13		1.0	0.20	ug/L	1		624.1	Total/NA
Isopropylbenzene	5.2		2.0	0.50	ug/L	1		624.1	Total/NA
m&p-Xylene	52		1.0	0.30	ug/L	1		624.1	Total/NA
Naphthalene	7.3		1.0	0.20	ug/L	1		624.1	Total/NA
n-Butylbenzene	0.71	J	1.0	0.20	ug/L	1		624.1	Total/NA
n-Heptane	1.8		1.0	0.30	ug/L	1		624.1	Total/NA
n-Hexane	6.7		1.0	0.46	ug/L	1		624.1	Total/NA
N-Propylbenzene	6.1		1.0	0.20	ug/L	1		624.1	Total/NA
o-Xylene	3.5		1.0	0.20	ug/L	1		624.1	Total/NA
p-Isopropyltoluene	0.45	J	1.0	0.20	ug/L	1		624.1	Total/NA
sec-Butylbenzene	0.93	J	1.0	0.20	ug/L	1		624.1	Total/NA
t-Butyl alcohol	6.7	J	20	6.0	ug/L	1		624.1	Total/NA
Tetrachloroethene	210		1.0	0.30	ug/L	1		624.1	Total/NA
Toluene	4.9		1.0	0.20	ug/L	1		624.1	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.20	ug/L	1		624.1	Total/NA
Trichloroethene	120		1.0	0.20	ug/L	1		624.1	Total/NA
Vinyl chloride	6.1		1.0	0.30	ug/L	1		624.1	Total/NA
Xylenes, Total	56		1.0	0.20	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	17		1.0	0.20	ug/L	1		8260D	Total/NA
Acetone	11	J	20	0.70	ug/L	1		8260D	Total/NA
2-Butanone	3.8	J	10	0.50	ug/L	1		8260D	Total/NA
1-Methylnaphthalene	4.6	J	6.6	0.46	ug/L	1		625.1	Total/NA
2-Methylnaphthalene	3.2	J	6.6	0.26	ug/L	1		625.1	Total/NA
Acenaphthene	0.41	J	6.6	0.33	ug/L	1		625.1	Total/NA
Naphthalene	5.3		2.6	0.39	ug/L	1		625.1	Total/NA
Phenol	1.2	J	1.3	0.66	ug/L	1		625.1	Total/NA
GRO (1C)	1600		50	23	ug/L	1		8015C	Total/NA
Ethane (1C)	1.6	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane (1C) - DL	1300	cn	50	30	ug/L	10		RSK-175	Total/NA
DRO (C10-C28) (1C)	0.36	cn	0.19	0.071	mg/L	1		8015C	Total/NA
Sulfate	110		30	10	mg/L	20		EPA 300.0 R2.1	Total/NA
Chloride	680		300	120	mg/L	200		EPA 300.0 R2.1	Total/NA
Arsenic	3.0		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	240		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	140000		1200	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
Cobalt	2.2		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	1.1		1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-INFLUENT (Continued)
Lab Sample ID: 410-103227-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	5000		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	49000	^2	50	16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2100		2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	4.0		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	6400		200	65	ug/L	1		200.8 Rev 5.4	Total Recoverable
Selenium	1.5		1.0	0.28	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	370000		2000	900	ug/L	10		200.8 Rev 5.4	Total Recoverable
Mercury	0.00011	J	0.00020	0.000079	mg/L	1		245.1	Total/NA
HEM (Oil & Grease)	1.8	J	5.6	1.6	mg/L	1		1664A	Total/NA
Turbidity	70		4.0	4.0	NTU	4		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	370		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	600		100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	2800		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	1300		240	96	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	9.0		3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	0.92	J	1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	1.3		0.10	0.040	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	30	J	75	25	mg/L	1		410.4	Total/NA
pH	7.3	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	22.2	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Biochemical Oxygen Demand	2.3		2.0	2.0	mg/L	1		5210 B-2011	Total/NA
Langelier Index	2.4				LangSU	1		SM 2330B	Total/NA

Client Sample ID: RECEIVING_WATER-002
Lab Sample ID: 410-103227-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	0.37	J	1.0	0.20	ug/L	1		8260D	Total/NA
Acetone	1.4	J	20	0.70	ug/L	1		8260D	Total/NA
Methane (1C)	14		5.0	3.0	ug/L	1		RSK-175	Total/NA
DRO (C10-C28) (1C)	0.091	J cn	0.19	0.069	mg/L	1		8015C	Total/NA
Sulfate	1600		750	250	mg/L	500		EPA 300.0 R2.1	Total/NA
Chloride	13000		3800	1500	mg/L	2500		EPA 300.0 R2.1	Total/NA
Antimony	0.42	J	1.0	0.20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Aluminum	32		30	12	ug/L	1		200.8 Rev 5.4	Total Recoverable
Arsenic	2.2		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	29		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	290000		1200	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
Cobalt	0.18	J	0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	2.3		1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	190		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: RECEIVING_WATER-002 (Continued)

Lab Sample ID: 410-103227-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.1		0.50	0.071	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	820000		500	160	ug/L	10		200.8 Rev 5.4	Total Recoverable
Manganese	100		2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	1.8		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	270000		2000	650	ug/L	10		200.8 Rev 5.4	Total Recoverable
Sodium	7000000		20000	9000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Vanadium	1.4	J	4.0	0.79	ug/L	1		200.8 Rev 5.4	Total Recoverable
Zinc	16		10	4.0	ug/L	1		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	1.8	J	5.4	1.5	mg/L	1		1664A	Total/NA
Turbidity	3.4		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	130		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	4000		500	150	mg/L	50		2340C-2011	Total/NA
Specific Conductance	37000		50	17	umhos/cm	10		2510B-2011	Total/NA
Total Dissolved Solids	20000		3000	1200	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	7.8		3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	0.81	J	1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.42		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.65		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	720	J cn	750	250	mg/L	10		410.4	Total/NA
Phenols, Total	0.15		0.10	0.050	mg/L	5		420.4	Total/NA
pH	7.6	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	21.6	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA

Client Sample ID: QAQC_TB

Lab Sample ID: 410-103227-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: ORS-INFLUENT
Date Collected: 10/25/22 09:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,1-Dichloroethane	**0.51**	**J**	1.0	0.20	ug/L			10/26/22 16:48	1
1,1-Dichloroethene	**0.92**	**J**	1.0	0.30	ug/L			10/26/22 16:48	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,2,4-Trimethylbenzene	**13**		1.0	0.20	ug/L			10/26/22 16:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/26/22 16:48	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/26/22 16:48	1
1,2-Dichloroethane	**6.8**		1.0	0.30	ug/L			10/26/22 16:48	1
1,2-Dichloroethene (total)	**47**		1.0	0.20	ug/L			10/26/22 16:48	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,3,5-Trimethylbenzene	**5.9**		1.0	0.20	ug/L			10/26/22 16:48	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:48	1
1,4-Dioxane	ND		100	82	ug/L			10/26/22 16:48	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/26/22 16:48	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/26/22 16:48	1
2-Chloroethyl vinyl ether	ND	cn	1.0	0.50	ug/L			10/26/22 16:48	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 16:48	1
2-Hexanone	ND		2.0	0.50	ug/L			10/26/22 16:48	1
2-Propanol	ND		20	8.0	ug/L			10/26/22 16:48	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 16:48	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/26/22 16:48	1
Acetonitrile	ND		50	14	ug/L			10/26/22 16:48	1
Benzene	**260**		1.0	0.20	ug/L			10/26/22 16:48	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/26/22 16:48	1
Bromobenzene	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Bromoform	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Bromomethane	ND		1.0	0.44	ug/L			10/26/22 16:48	1
Butyl acetate	ND		5.0	0.60	ug/L			10/26/22 16:48	1
Carbon disulfide	ND		1.0	0.45	ug/L			10/26/22 16:48	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			10/26/22 16:48	1
Chlorobenzene	**0.59**	**J**	1.0	0.20	ug/L			10/26/22 16:48	1
Chloroethane	ND		1.0	0.44	ug/L			10/26/22 16:48	1
Chloroform	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Chloromethane	ND		1.0	0.64	ug/L			10/26/22 16:48	1
cis-1,2-Dichloroethene	**46**		1.0	0.20	ug/L			10/26/22 16:48	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Cyclohexane	**58**		1.0	0.30	ug/L			10/26/22 16:48	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Dibromomethane	ND		1.0	0.20	ug/L			10/26/22 16:48	1

Client Sample ID: ORS-INFLUENT
Date Collected: 10/25/22 09:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			10/26/22 16:48	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			10/26/22 16:48	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/26/22 16:48	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Ethylbenzene	**13**		1.0	0.20	ug/L			10/26/22 16:48	1
Freon 113	ND		1.0	0.30	ug/L			10/26/22 16:48	1
Freon 123a	ND		1.0	0.44	ug/L			10/26/22 16:48	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Isobutyl alcohol	ND		50	11	ug/L			10/26/22 16:48	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/26/22 16:48	1
Isopropylbenzene	**5.2**		2.0	0.50	ug/L			10/26/22 16:48	1
m&p-Xylene	**52**		1.0	0.30	ug/L			10/26/22 16:48	1
Methacrylonitrile	ND		10	2.0	ug/L			10/26/22 16:48	1
Methyl iodide	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/26/22 16:48	1
Naphthalene	**7.3**		1.0	0.20	ug/L			10/26/22 16:48	1
n-Butylbenzene	**0.71**	**J**	1.0	0.20	ug/L			10/26/22 16:48	1
n-Heptane	**1.8**		1.0	0.30	ug/L			10/26/22 16:48	1
n-Hexane	**6.7**		1.0	0.46	ug/L			10/26/22 16:48	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/26/22 16:48	1
N-Propylbenzene	**6.1**		1.0	0.20	ug/L			10/26/22 16:48	1
o-Xylene	**3.5**		1.0	0.20	ug/L			10/26/22 16:48	1
p-Isopropyltoluene	**0.45**	**J**	1.0	0.20	ug/L			10/26/22 16:48	1
Propionitrile	ND		20	8.5	ug/L			10/26/22 16:48	1
sec-Butylbenzene	**0.93**	**J**	1.0	0.20	ug/L			10/26/22 16:48	1
Styrene	ND		1.0	0.20	ug/L			10/26/22 16:48	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/26/22 16:48	1
t-Butyl alcohol	**6.7**	**J**	20	6.0	ug/L			10/26/22 16:48	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:48	1
Tetrachloroethene	**210**		1.0	0.30	ug/L			10/26/22 16:48	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/26/22 16:48	1
Toluene	**4.9**		1.0	0.20	ug/L			10/26/22 16:48	1
trans-1,2-Dichloroethene	**1.3**		1.0	0.20	ug/L			10/26/22 16:48	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/26/22 16:48	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/26/22 16:48	1
Trichloroethene	**120**		1.0	0.20	ug/L			10/26/22 16:48	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/26/22 16:48	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/26/22 16:48	1
Vinyl chloride	**6.1**		1.0	0.30	ug/L			10/26/22 16:48	1
Xylenes, Total	**56**		1.0	0.20	ug/L			10/26/22 16:48	1
Acrolein	ND	cn	10	3.0	ug/L			10/26/22 16:48	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			10/26/22 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 140*		*10/26/22 16:48*	*1*
4-Bromofluorobenzene (Surr)	*116*		*60 - 140*		*10/26/22 16:48*	*1*
Dibromofluoromethane (Surr)	*91*		*60 - 140*		*10/26/22 16:48*	*1*

Client Sample ID: ORS-INFLUENT
Date Collected: 10/25/22 09:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*60 - 140*		*10/26/22 16:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**17**		1.0	0.20	ug/L			11/04/22 12:12	1
Acetone	**11**	**J**	20	0.70	ug/L			11/04/22 12:12	1
2-Butanone	**3.8**	**J**	10	0.50	ug/L			11/04/22 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*11/04/22 12:12*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*11/04/22 12:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*11/04/22 12:12*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/04/22 12:12*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
1,2,4,5-Tetrachlorobenzene	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
1,2,4-Trichlorobenzene	ND		1.3	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
1,2-Dichlorobenzene	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
1,2-Diphenylhydrazine	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
1,3-Dichlorobenzene	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
1,4-Dichlorobenzene	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
1,4-Dioxane	ND		6.6	2.6	ug/L		10/31/22 15:44	11/02/22 05:53	1
1-Methylnaphthalene	**4.6**	**J**	6.6	0.46	ug/L		10/31/22 15:44	11/02/22 05:53	1
1-Methylphenanthrene	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2,2'-oxybis[1-chloropropane]	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2,3,4,6-Tetrachlorophenol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2,3-Dichloroaniline	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2,4,5-Trichlorophenol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2,4,6-Trichlorophenol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2,4-Dichlorophenol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2,4-Dimethylphenol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2,4-Dinitrophenol	ND		13	2.6	ug/L		10/31/22 15:44	11/02/22 05:53	1
2,4-Dinitrotoluene	ND	cn	6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2,6-Dichlorophenol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2,6-Dinitrotoluene	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2-Chloronaphthalene	ND		6.6	1.3	ug/L		10/31/22 15:44	11/02/22 05:53	1
2-Chlorophenol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2-Methylnaphthalene	**3.2**	**J**	6.6	0.26	ug/L		10/31/22 15:44	11/02/22 05:53	1
2-Methylphenol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2-Nitroaniline	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
2-Nitrophenol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
3,3'-Dichlorobenzidine	ND		6.6	1.1	ug/L		10/31/22 15:44	11/02/22 05:53	1
3-Nitroaniline	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
4,6-Dinitro-2-methylphenol	ND	cn	13	2.6	ug/L		10/31/22 15:44	11/02/22 05:53	1
4-Bromophenyl-phenylether	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
4-Chloro-3-methylphenol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
4-Chloroaniline	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
4-Chlorophenyl-phenylether	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: ORS-INFLUENT
Date Collected: 10/25/22 09:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-1
Matrix: Groundwater

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
4-Nitroaniline	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
4-Nitrophenol	ND		6.6	1.2	ug/L		10/31/22 15:44	11/02/22 05:53	1
Acenaphthene	**0.41**	**J**	6.6	0.33	ug/L		10/31/22 15:44	11/02/22 05:53	1
Acenaphthylene	ND		6.6	0.26	ug/L		10/31/22 15:44	11/02/22 05:53	1
Acetophenone	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Aniline	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Anthracene	ND		6.6	0.33	ug/L		10/31/22 15:44	11/02/22 05:53	1
a-Terpineol	ND		6.6	0.79	ug/L		10/31/22 15:44	11/02/22 05:53	1
Benzidine	ND		79	7.9	ug/L		10/31/22 15:44	11/02/22 05:53	1
Benzo[a]anthracene	ND		6.6	0.33	ug/L		10/31/22 15:44	11/02/22 05:53	1
Benzo[a]pyrene	ND		6.6	0.33	ug/L		10/31/22 15:44	11/02/22 05:53	1
Benzo[b]fluoranthene	ND		6.6	0.33	ug/L		10/31/22 15:44	11/02/22 05:53	1
Benzo[g,h,i]perylene	ND		6.6	0.39	ug/L		10/31/22 15:44	11/02/22 05:53	1
Benzo[k]fluoranthene	ND		6.6	0.26	ug/L		10/31/22 15:44	11/02/22 05:53	1
Benzoic acid	ND		32	4.3	ug/L		10/31/22 15:47	11/02/22 19:01	1
Benzyl alcohol	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Bis(2-chloroethoxy)methane	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Bis(2-chloroethyl)ether	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Bis(2-ethylhexyl) phthalate	ND		6.6	1.3	ug/L		10/31/22 15:44	11/02/22 05:53	1
Butylbenzylphthalate	ND		6.6	1.3	ug/L		10/31/22 15:44	11/02/22 05:53	1
Carbazole	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Chrysene	ND		6.6	0.26	ug/L		10/31/22 15:44	11/02/22 05:53	1
Dibenz(a,h)anthracene	ND		6.6	0.39	ug/L		10/31/22 15:44	11/02/22 05:53	1
Dibenzofuran	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Diethylphthalate	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Dimethylphthalate	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Di-n-butyl phthalate	ND		6.6	1.3	ug/L		10/31/22 15:44	11/02/22 05:53	1
Di-n-octyl phthalate	ND	cn	6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Diphenyl ether	ND		6.6	0.99	ug/L		10/31/22 15:44	11/02/22 05:53	1
Fluoranthene	ND		6.6	0.26	ug/L		10/31/22 15:44	11/02/22 05:53	1
Fluorene	ND		6.6	0.26	ug/L		10/31/22 15:44	11/02/22 05:53	1
Hexachlorobenzene	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Hexachlorobutadiene	ND		2.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Hexachlorocyclopentadiene	ND		20	3.9	ug/L		10/31/22 15:44	11/02/22 05:53	1
Hexachloroethane	ND		2.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Indeno[1,2,3-cd]pyrene	ND		6.6	0.39	ug/L		10/31/22 15:44	11/02/22 05:53	1
Isophorone	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Naphthalene	**5.3**		2.6	0.39	ug/L		10/31/22 15:44	11/02/22 05:53	1
n-Decane	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
n-Docosane	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
n-Eicosane	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
n-Hexadecane	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Nitrobenzene	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
N-Nitrosodiethylamine	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
N-Nitrosodimethylamine	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
N-Nitrosodi-n-butylamine	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
N-Nitrosodi-n-propylamine	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
N-Nitrosodiphenylamine	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1

Client Sample ID: ORS-INFLUENT
Date Collected: 10/25/22 09:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-1
Matrix: Groundwater

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
n-Octadecane	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
n-Tetradecane	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
o-Toluidine	ND		6.6	1.3	ug/L		10/31/22 15:44	11/02/22 05:53	1
Pentachlorobenzene	ND		6.6	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Pentachlorophenol	ND		6.6	1.1	ug/L		10/31/22 15:44	11/02/22 05:53	1
Phenanthrene	ND		6.6	0.26	ug/L		10/31/22 15:44	11/02/22 05:53	1
Phenol	**1.2**	**J**	1.3	0.66	ug/L		10/31/22 15:44	11/02/22 05:53	1
Pyrene	ND		6.6	0.33	ug/L		10/31/22 15:44	11/02/22 05:53	1
Pyridine	ND		6.6	1.1	ug/L		10/31/22 15:44	11/02/22 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*18*		*10 - 150*	*10/31/22 15:44*	*11/02/22 05:53*	*1*
2,4,6-Tribromofenol (Surr)	*30*		*10 - 150*	*10/31/22 15:47*	*11/02/22 19:01*	*1*
2-Fluorobiphenyl (Surr)	*81*		*32 - 115*	*10/31/22 15:44*	*11/02/22 05:53*	*1*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*	*10/31/22 15:47*	*11/02/22 19:01*	*1*
2-Fluorophenol (Surr)	*19*		*10 - 83*	*10/31/22 15:44*	*11/02/22 05:53*	*1*
2-Fluorophenol (Surr)	*19*		*10 - 83*	*10/31/22 15:47*	*11/02/22 19:01*	*1*
Nitrobenzene-d5 (Surr)	*79*		*41 - 111*	*10/31/22 15:44*	*11/02/22 05:53*	*1*
Nitrobenzene-d5 (Surr)	*75*		*41 - 111*	*10/31/22 15:47*	*11/02/22 19:01*	*1*
Phenol-d5 (Surr)	*14*		*10 - 59*	*10/31/22 15:44*	*11/02/22 05:53*	*1*
Phenol-d5 (Surr)	*15*		*10 - 59*	*10/31/22 15:47*	*11/02/22 19:01*	*1*
p-Terphenyl-d14 (Surr)	*87*		*37 - 140*	*10/31/22 15:44*	*11/02/22 05:53*	*1*
p-Terphenyl-d14 (Surr)	*88*		*37 - 140*	*10/31/22 15:47*	*11/02/22 19:01*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	**1600**		50	23	ug/L			11/02/22 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*100*		*63 - 135*		*11/02/22 19:28*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	**1.6**	**J**	5.0	1.0	ug/L		10/26/22 08:12	10/26/22 17:20	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/26/22 08:12	10/26/22 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*86*		*43 - 133*	*10/26/22 08:12*	*10/26/22 17:20*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (1C)	**1300**	**cn**	50	30	ug/L		10/28/22 07:45	10/28/22 09:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*99*		*43 - 133*	*10/28/22 07:45*	*10/28/22 09:33*	*10*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	**0.36**	**cn**	0.19	0.071	mg/L		11/01/22 20:07	11/02/22 21:19	1
>C28-C35 (1C)	ND	cn	0.19	0.071	mg/L		11/01/22 20:07	11/02/22 21:19	1

Client Sample ID: ORS-INFLUENT

Date Collected: 10/25/22 09:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-1

Matrix: Groundwater

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*86*	*cn*	*43 - 131*	*11/01/22 20:07*	*11/02/22 21:19*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**110**		30	10	mg/L			11/07/22 21:01	20
Chloride	**680**		300	120	mg/L			11/09/22 20:11	200

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		10/31/22 08:47	11/02/22 02:41	1
Aluminum	ND		30	12	ug/L		10/31/22 08:47	11/02/22 02:41	1
Arsenic	**3.0**		2.0	0.68	ug/L		10/31/22 08:47	11/02/22 02:41	1
Barium	**240**		2.0	0.75	ug/L		10/31/22 08:47	11/02/22 02:41	1
Beryllium	ND		0.50	0.12	ug/L		10/31/22 08:47	11/02/22 02:41	1
Cadmium	ND		0.50	0.15	ug/L		10/31/22 08:47	11/02/22 02:41	1
Calcium	**140000**		1200	500	ug/L		10/31/22 08:47	11/03/22 02:08	10
Chromium	ND		2.0	0.33	ug/L		10/31/22 08:47	11/02/22 02:41	1
Cobalt	**2.2**		0.50	0.16	ug/L		10/31/22 08:47	11/02/22 02:41	1
Copper	**1.1**		1.0	0.36	ug/L		10/31/22 08:47	11/02/22 02:41	1
Iron	**5000**		50	20	ug/L		10/31/22 08:47	11/02/22 02:41	1
Lead	ND		0.50	0.071	ug/L		10/31/22 08:47	11/02/22 02:41	1
Magnesium	**49000**	**^2**	50	16	ug/L		10/31/22 08:47	11/02/22 02:41	1
Manganese	**2100**		2.0	0.95	ug/L		10/31/22 08:47	11/02/22 02:41	1
Nickel	**4.0**		1.0	0.40	ug/L		10/31/22 08:47	11/02/22 02:41	1
Potassium	**6400**		200	65	ug/L		10/31/22 08:47	11/02/22 02:41	1
Selenium	**1.5**		1.0	0.28	ug/L		10/31/22 08:47	11/02/22 02:41	1
Silver	ND		0.50	0.10	ug/L		10/31/22 08:47	11/02/22 02:41	1
Sodium	**370000**		2000	900	ug/L		10/31/22 08:47	11/03/22 02:08	10
Thallium	ND		0.50	0.13	ug/L		10/31/22 08:47	11/02/22 02:41	1
Vanadium	ND		4.0	0.79	ug/L		10/31/22 08:47	11/02/22 02:41	1
Zinc	ND		10	4.0	ug/L		10/31/22 08:47	11/02/22 02:41	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00011**	**J**	0.00020	0.000079	mg/L		10/29/22 09:35	10/31/22 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	**1.8**	**J**	5.6	1.6	mg/L			10/27/22 21:14	1
Turbidity (MCAWW 180.1)	**70**		4.0	4.0	NTU			10/26/22 20:50	4
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**370**		8.0	2.6	mg/L			10/27/22 22:40	1
Total Hardness (SM 2340C-2011)	**600**		100	30	mg/L			10/26/22 13:02	10
Specific Conductance (SM 2510B-2011)	**2800**		5.0	1.7	umhos/cm			10/27/22 22:40	1
Total Dissolved Solids (SM 2540C - 2015)	**1300**		240	96	mg/L			10/26/22 06:53	1
Total Suspended Solids (SM 2540D-2015)	**9.0**		3.0	1.0	mg/L			10/26/22 15:33	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			10/26/22 13:48	1
Total Kjeldahl Nitrogen (MCAWW 351.2)	**0.92**	**J**	1.0	0.50	mg/L		11/03/22 11:50	11/04/22 13:06	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: ORS-INFLUENT
Date Collected: 10/25/22 09:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-1
Matrix: Groundwater

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 353.2)	1.3		0.10	0.040	mg/L			10/27/22 06:52	1
Total Phosphorus as PO4 (EPA 365.1)	ND		0.31	0.25	mg/L		10/26/22 09:35	10/27/22 06:29	1
Chemical Oxygen Demand (MCAWW 410.4)	30	J	75	25	mg/L			10/26/22 06:38	1
Phenols, Total (MCAWW 420.4)	ND		0.020	0.010	mg/L			11/01/22 10:07	1
pH (SM 4500 H+ B-2011)	7.3	HF	0.01	0.01	S.U.			10/27/22 22:40	1
Temperature (SM 4500 H+ B-2011)	22.2	HF	0.01	0.01	Degrees C			10/27/22 22:40	1
Biochemical Oxygen Demand (SM 5210 B-2011)	2.3		2.0	2.0	mg/L			10/26/22 19:14	1
Langelier Index (SM 2330B)	2.4				LangSU			10/26/22 05:01	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: RECEIVING_WATER-002
Date Collected: 10/25/22 11:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-2
Matrix: Surface Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/26/22 16:27	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/26/22 16:27	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/26/22 16:27	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/26/22 16:27	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
1,4-Dioxane	ND		100	82	ug/L			10/26/22 16:27	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/26/22 16:27	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/26/22 16:27	1
2-Chloroethyl vinyl ether	ND	cn	1.0	0.50	ug/L			10/26/22 16:27	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 16:27	1
2-Hexanone	ND		2.0	0.50	ug/L			10/26/22 16:27	1
2-Propanol	ND		20	8.0	ug/L			10/26/22 16:27	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 16:27	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/26/22 16:27	1
Acetonitrile	ND		50	14	ug/L			10/26/22 16:27	1
Benzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/26/22 16:27	1
Bromobenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Bromoform	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Bromomethane	ND		1.0	0.44	ug/L			10/26/22 16:27	1
Butyl acetate	ND		5.0	0.60	ug/L			10/26/22 16:27	1
Carbon disulfide	ND		1.0	0.45	ug/L			10/26/22 16:27	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			10/26/22 16:27	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Chloroethane	ND		1.0	0.44	ug/L			10/26/22 16:27	1
Chloroform	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Chloromethane	ND		1.0	0.64	ug/L			10/26/22 16:27	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Cyclohexane	ND		1.0	0.30	ug/L			10/26/22 16:27	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Dibromomethane	ND		1.0	0.20	ug/L			10/26/22 16:27	1

Client Sample ID: RECEIVING_WATER-002
Date Collected: 10/25/22 11:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-2
Matrix: Surface Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			10/26/22 16:27	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			10/26/22 16:27	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/26/22 16:27	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Freon 113	ND		1.0	0.30	ug/L			10/26/22 16:27	1
Freon 123a	ND		1.0	0.44	ug/L			10/26/22 16:27	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Isobutyl alcohol	ND		50	11	ug/L			10/26/22 16:27	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/26/22 16:27	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/26/22 16:27	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/26/22 16:27	1
Methacrylonitrile	ND		10	2.0	ug/L			10/26/22 16:27	1
Methyl iodide	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/26/22 16:27	1
Naphthalene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
n-Heptane	ND		1.0	0.30	ug/L			10/26/22 16:27	1
n-Hexane	ND		1.0	0.46	ug/L			10/26/22 16:27	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/26/22 16:27	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
o-Xylene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Propionitrile	ND		20	8.5	ug/L			10/26/22 16:27	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Styrene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/26/22 16:27	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/26/22 16:27	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/26/22 16:27	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/26/22 16:27	1
Toluene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/26/22 16:27	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/26/22 16:27	1
Trichloroethene	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/26/22 16:27	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/26/22 16:27	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/26/22 16:27	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/26/22 16:27	1
Acrolein	ND	cn	10	3.0	ug/L			10/26/22 16:27	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			10/26/22 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*		*10/26/22 16:27*	*1*
4-Bromofluorobenzene (Surr)	*110*		*60 - 140*		*10/26/22 16:27*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*10/26/22 16:27*	*1*

Client Sample ID: RECEIVING_WATER-002
Date Collected: 10/25/22 11:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-2
Matrix: Surface Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*60 - 140*		*10/26/22 16:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**0.37**	**J**	1.0	0.20	ug/L			11/04/22 12:32	1
Acetone	**1.4**	**J**	20	0.70	ug/L			11/04/22 12:32	1
2-Butanone	ND		10	0.50	ug/L			11/04/22 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*11/04/22 12:32*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*11/04/22 12:32*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*11/04/22 12:32*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/04/22 12:32*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
1,2,4,5-Tetrachlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
1,2-Dichlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
1,2-Diphenylhydrazine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
1,3-Dichlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
1,4-Dichlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
1,4-Dioxane	ND		5.2	2.1	ug/L		10/31/22 15:44	11/02/22 06:15	1
1-Methylnaphthalene	ND		5.2	0.37	ug/L		10/31/22 15:44	11/02/22 06:15	1
1-Methylphenanthrene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2,2'-oxybis[1-chloropropane]	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2,3,4,6-Tetrachlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2,3-Dichloroaniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2,4,5-Trichlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2,4,6-Trichlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2,4-Dichlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2,4-Dinitrophenol	ND		10	2.1	ug/L		10/31/22 15:44	11/02/22 06:15	1
2,4-Dinitrotoluene	ND	cn	5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2,6-Dichlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2,6-Dinitrotoluene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2-Chloronaphthalene	ND		5.2	1.0	ug/L		10/31/22 15:44	11/02/22 06:15	1
2-Chlorophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2-Methylnaphthalene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 06:15	1
2-Methylphenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2-Nitroaniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
2-Nitrophenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
3,3'-Dichlorobenzidine	ND		5.2	0.83	ug/L		10/31/22 15:44	11/02/22 06:15	1
3-Nitroaniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
4,6-Dinitro-2-methylphenol	ND	cn	10	2.1	ug/L		10/31/22 15:44	11/02/22 06:15	1
4-Bromophenyl-phenylether	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
4-Chloro-3-methylphenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
4-Chloroaniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
4-Chlorophenyl-phenylether	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: RECEIVING_WATER-002
Date Collected: 10/25/22 11:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-2
Matrix: Surface Water

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
4-Nitroaniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
4-Nitrophenol	ND		5.2	0.94	ug/L		10/31/22 15:44	11/02/22 06:15	1
Acenaphthene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 06:15	1
Acenaphthylene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 06:15	1
Acetophenone	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Aniline	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Anthracene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 06:15	1
a-Terpineol	ND		5.2	0.63	ug/L		10/31/22 15:44	11/02/22 06:15	1
Benzidine	ND		63	6.3	ug/L		10/31/22 15:44	11/02/22 06:15	1
Benzo[a]anthracene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 06:15	1
Benzo[a]pyrene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 06:15	1
Benzo[b]fluoranthene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 06:15	1
Benzo[g,h,i]perylene	ND		5.2	0.31	ug/L		10/31/22 15:44	11/02/22 06:15	1
Benzo[k]fluoranthene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 06:15	1
Benzoic acid	ND		40	5.3	ug/L		10/31/22 15:47	11/02/22 19:22	1
Benzyl alcohol	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Bis(2-chloroethoxy)methane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Bis(2-chloroethyl)ether	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Bis(2-ethylhexyl) phthalate	ND		5.2	1.0	ug/L		10/31/22 15:44	11/02/22 06:15	1
Butylbenzylphthalate	ND		5.2	1.0	ug/L		10/31/22 15:44	11/02/22 06:15	1
Carbazole	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Chrysene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 06:15	1
Dibenz(a,h)anthracene	ND		5.2	0.31	ug/L		10/31/22 15:44	11/02/22 06:15	1
Dibenzofuran	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Diethylphthalate	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Dimethylphthalate	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Di-n-butyl phthalate	ND		5.2	1.0	ug/L		10/31/22 15:44	11/02/22 06:15	1
Di-n-octyl phthalate	ND	cn	5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Diphenyl ether	ND		5.2	0.78	ug/L		10/31/22 15:44	11/02/22 06:15	1
Fluoranthene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 06:15	1
Fluorene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 06:15	1
Hexachlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Hexachlorobutadiene	ND		2.1	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Hexachlorocyclopentadiene	ND		16	3.1	ug/L		10/31/22 15:44	11/02/22 06:15	1
Hexachloroethane	ND		2.1	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.31	ug/L		10/31/22 15:44	11/02/22 06:15	1
Isophorone	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Naphthalene	ND		2.1	0.31	ug/L		10/31/22 15:44	11/02/22 06:15	1
n-Decane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
n-Docosane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
n-Eicosane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
n-Hexadecane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Nitrobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
N-Nitrosodiethylamine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
N-Nitrosodimethylamine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
N-Nitrosodi-n-butylamine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
N-Nitrosodi-n-propylamine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
N-Nitrosodiphenylamine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1

Client Sample ID: RECEIVING_WATER-002
Date Collected: 10/25/22 11:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-2
Matrix: Surface Water

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
n-Octadecane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
n-Tetradecane	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
o-Toluidine	ND		5.2	1.0	ug/L		10/31/22 15:44	11/02/22 06:15	1
Pentachlorobenzene	ND		5.2	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Pentachlorophenol	ND		5.2	0.83	ug/L		10/31/22 15:44	11/02/22 06:15	1
Phenanthrene	ND		5.2	0.21	ug/L		10/31/22 15:44	11/02/22 06:15	1
Phenol	ND		1.0	0.52	ug/L		10/31/22 15:44	11/02/22 06:15	1
Pyrene	ND		5.2	0.26	ug/L		10/31/22 15:44	11/02/22 06:15	1
Pyridine	ND		5.2	0.83	ug/L		10/31/22 15:44	11/02/22 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*46*		*10 - 150*	*10/31/22 15:44*	*11/02/22 06:15*	*1*
2,4,6-Tribromofenol (Surr)	*57*		*10 - 150*	*10/31/22 15:47*	*11/02/22 19:22*	*1*
2-Fluorobiphenyl (Surr)	*79*		*32 - 115*	*10/31/22 15:44*	*11/02/22 06:15*	*1*
2-Fluorobiphenyl (Surr)	*81*		*32 - 115*	*10/31/22 15:47*	*11/02/22 19:22*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 83*	*10/31/22 15:44*	*11/02/22 06:15*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 83*	*10/31/22 15:47*	*11/02/22 19:22*	*1*
Nitrobenzene-d5 (Surr)	*79*		*41 - 111*	*10/31/22 15:44*	*11/02/22 06:15*	*1*
Nitrobenzene-d5 (Surr)	*76*		*41 - 111*	*10/31/22 15:47*	*11/02/22 19:22*	*1*
Phenol-d5 (Surr)	*44*		*10 - 59*	*10/31/22 15:44*	*11/02/22 06:15*	*1*
Phenol-d5 (Surr)	*55*		*10 - 59*	*10/31/22 15:47*	*11/02/22 19:22*	*1*
p-Terphenyl-d14 (Surr)	*84*		*37 - 140*	*10/31/22 15:44*	*11/02/22 06:15*	*1*
p-Terphenyl-d14 (Surr)	*92*		*37 - 140*	*10/31/22 15:47*	*11/02/22 19:22*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	ND		50	23	ug/L			11/02/22 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*101*		*63 - 135*		*11/02/22 19:53*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/26/22 08:12	10/26/22 17:37	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/26/22 08:12	10/26/22 17:37	1
Methane (1C)	**14**		5.0	3.0	ug/L		10/26/22 08:12	10/26/22 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*93*		*43 - 133*	*10/26/22 08:12*	*10/26/22 17:37*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	**0.091**	**J cn**	0.19	0.069	mg/L		11/01/22 20:07	11/02/22 21:41	1
>C28-C35 (1C)	ND	cn	0.19	0.069	mg/L		11/01/22 20:07	11/02/22 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*79*	*cn*	*43 - 131*	*11/01/22 20:07*	*11/02/22 21:41*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: RECEIVING_WATER-002

Date Collected: 10/25/22 11:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-2

Matrix: Surface Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1600		750	250	mg/L			11/09/22 19:02	500
Chloride	13000		3800	1500	mg/L			11/10/22 16:32	2500

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.0	0.20	ug/L		10/31/22 08:47	11/02/22 02:45	1
Aluminum	32		30	12	ug/L		10/31/22 08:47	11/02/22 02:45	1
Arsenic	2.2		2.0	0.68	ug/L		10/31/22 08:47	11/02/22 02:45	1
Barium	29		2.0	0.75	ug/L		10/31/22 08:47	11/02/22 02:45	1
Beryllium	ND		0.50	0.12	ug/L		10/31/22 08:47	11/02/22 02:45	1
Cadmium	ND		0.50	0.15	ug/L		10/31/22 08:47	11/02/22 02:45	1
Calcium	290000		1200	500	ug/L		10/31/22 08:47	11/03/22 02:13	10
Chromium	ND		2.0	0.33	ug/L		10/31/22 08:47	11/02/22 02:45	1
Cobalt	0.18	J	0.50	0.16	ug/L		10/31/22 08:47	11/02/22 02:45	1
Copper	2.3		1.0	0.36	ug/L		10/31/22 08:47	11/02/22 02:45	1
Iron	190		50	20	ug/L		10/31/22 08:47	11/02/22 02:45	1
Lead	1.1		0.50	0.071	ug/L		10/31/22 08:47	11/02/22 02:45	1
Magnesium	820000		500	160	ug/L		10/31/22 08:47	11/03/22 02:13	10
Manganese	100		2.0	0.95	ug/L		10/31/22 08:47	11/02/22 02:45	1
Nickel	1.8		1.0	0.40	ug/L		10/31/22 08:47	11/02/22 02:45	1
Potassium	270000		2000	650	ug/L		10/31/22 08:47	11/03/22 02:13	10
Selenium	ND		1.0	0.28	ug/L		10/31/22 08:47	11/02/22 02:45	1
Silver	ND		0.50	0.10	ug/L		10/31/22 08:47	11/02/22 02:45	1
Sodium	7000000		20000	9000	ug/L		10/31/22 08:47	11/03/22 02:15	100
Thallium	ND		0.50	0.13	ug/L		10/31/22 08:47	11/02/22 02:45	1
Vanadium	1.4	J	4.0	0.79	ug/L		10/31/22 08:47	11/02/22 02:45	1
Zinc	16		10	4.0	ug/L		10/31/22 08:47	11/02/22 02:45	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/29/22 09:35	10/31/22 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	1.8	J	5.4	1.5	mg/L			10/27/22 21:14	1
Turbidity (MCAWW 180.1)	3.4		1.0	1.0	NTU			10/26/22 20:50	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	130		8.0	2.6	mg/L			10/28/22 02:42	1
Total Hardness (SM 2340C-2011)	4000		500	150	mg/L			10/26/22 14:49	50
Specific Conductance (SM 2510B-2011)	37000		50	17	umhos/cm			10/28/22 00:21	10
Total Dissolved Solids (SM 2540C - 2015)	20000		3000	1200	mg/L			10/27/22 06:55	1
Total Suspended Solids (SM 2540D-2015)	7.8		3.0	1.0	mg/L			10/26/22 15:33	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			10/26/22 13:48	1
Total Kjeldahl Nitrogen (MCAWW 351.2)	0.81	J	1.0	0.50	mg/L		11/03/22 11:50	11/04/22 13:08	1
Nitrate as N (EPA 353.2)	0.42		0.10	0.040	mg/L			10/27/22 06:52	1
Total Phosphorus as PO4 (EPA 365.1)	0.65		0.31	0.25	mg/L		10/26/22 09:35	10/27/22 06:29	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: RECEIVING_WATER-002
Date Collected: 10/25/22 11:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-2
Matrix: Surface Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (MCAWW 410.4)	**720**	**J cn**	750	250	mg/L			10/26/22 06:38	10
Phenols, Total (MCAWW 420.4)	**0.15**		0.10	0.050	mg/L			11/01/22 12:02	5
pH (SM 4500 H+ B-2011)	**7.6**	**HF**	0.01	0.01	S.U.			10/28/22 02:42	1
Temperature (SM 4500 H+ B-2011)	**21.6**	**HF**	0.01	0.01	Degrees C			10/28/22 02:42	1
Biochemical Oxygen Demand (SM 5210 B-2011)	ND		2.0	2.0	mg/L			10/26/22 19:14	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: QAQC_TB
Date Collected: 10/19/22 00:00
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-3
Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/26/22 15:44	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/26/22 15:44	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Benzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Bromoform	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Bromomethane	ND		1.0	0.44	ug/L			10/26/22 15:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/26/22 15:44	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			10/26/22 15:44	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/26/22 15:44	1
Chloroethane	ND		1.0	0.44	ug/L			10/26/22 15:44	1
Chloroform	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Chloromethane	ND		1.0	0.64	ug/L			10/26/22 15:44	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/26/22 15:44	1
1,4-Dioxane	ND		100	82	ug/L			10/26/22 15:44	1
Toluene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/26/22 15:44	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/26/22 15:44	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/26/22 15:44	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/26/22 15:44	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 15:44	1
Trichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
2-Hexanone	ND		2.0	0.50	ug/L			10/26/22 15:44	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/26/22 15:44	1
2-Propanol	ND		20	8.0	ug/L			10/26/22 15:44	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/26/22 15:44	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 15:44	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: QAQC_TB
Date Collected: 10/19/22 00:00
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-3
Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/26/22 15:44	1
Acetonitrile	ND		50	14	ug/L			10/26/22 15:44	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/26/22 15:44	1
Bromobenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Butyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:44	1
Carbon disulfide	ND		1.0	0.45	ug/L			10/26/22 15:44	1
Cyclohexane	ND		1.0	0.30	ug/L			10/26/22 15:44	1
Dibromomethane	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			10/26/22 15:44	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			10/26/22 15:44	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/26/22 15:44	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Freon 113	ND		1.0	0.30	ug/L			10/26/22 15:44	1
Freon 123a	ND		1.0	0.44	ug/L			10/26/22 15:44	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Isobutyl alcohol	ND		50	11	ug/L			10/26/22 15:44	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:44	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/26/22 15:44	1
Methacrylonitrile	ND		10	2.0	ug/L			10/26/22 15:44	1
Methyl iodide	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Naphthalene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Propionitrile	ND		20	8.5	ug/L			10/26/22 15:44	1
Styrene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/26/22 15:44	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/26/22 15:44	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/26/22 15:44	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/26/22 15:44	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
n-Heptane	ND		1.0	0.30	ug/L			10/26/22 15:44	1
n-Hexane	ND		1.0	0.46	ug/L			10/26/22 15:44	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:44	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
o-Xylene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/26/22 15:44	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/26/22 15:44	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:44	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/26/22 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*		*10/26/22 15:44*	*1*
4-Bromofluorobenzene (Surr)	*109*		*60 - 140*		*10/26/22 15:44*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*10/26/22 15:44*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*10/26/22 15:44*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: QAQC_TB
Date Collected: 10/19/22 00:00
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/02/22 13:16	1
Acetone	ND		20	0.70	ug/L			11/02/22 13:16	1
2-Butanone	ND		10	0.50	ug/L			11/02/22 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*11/02/22 13:16*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/02/22 13:16*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/02/22 13:16*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/02/22 13:16*	*1*

Action Limit Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 410-103227-1

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	1.8	J	mg/L	5	5.6	1664A	Total/NA

Client Sample ID: RECEIVING_WATER-002
Lab Sample ID: 410-103227-2

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	1.8	J	mg/L	5	5.4	1664A	Total/NA

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-103227-1	ORS-INFLUENT	91	116	91	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-103227-2	RECEIVING_WATER-002	99	110	100	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-103227-3	QAQC_TB	96	109	99	100
LCS 410-310759/1003	Lab Control Sample	92	103	93	109
LCS 410-310759/1004	Lab Control Sample	92	117	87	93
MB 410-310759/5	Method Blank	98	104	100	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-103227-1	ORS-INFLUENT	98	98	104	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

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

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-103227-2	RECEIVING_WATER-002	101	100	106	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-103227-3	QAQC_TB	104	103	98	96
LCS 410-312990/4	Lab Control Sample	98	98	101	98
LCS 410-313828/4	Lab Control Sample	98	98	107	98
MB 410-312990/6	Method Blank	102	102	99	96
MB 410-313828/6	Method Blank	100	100	106	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-111)	(10-59)	(37-140)
410-103227-1	ORS-INFLUENT	18	81	19	79	14	87
410-103227-1	ORS-INFLUENT	30	78	19	75	15	88

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-111)	(10-59)	(37-140)
410-103227-2	RECEIVING_WATER-002	46	79	46	79	44	84
410-103227-2	RECEIVING_WATER-002	57	81	53	76	55	92

Surrogate Legend

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-111)	(10-59)	(37-140)
LCS 410-312336/2-A	Lab Control Sample	66	73	45	70	35	72
LCS 410-312336/4-A	Lab Control Sample	58	80	42	75	32	80
LCS 410-312339/2-A	Lab Control Sample	70	83	44	78	34	92
LCSD 410-312336/3-A	Lab Control Sample Dup	71	77	44	76	33	86
LCSD 410-312336/5-A	Lab Control Sample Dup	54	68	32	65	24	80
LCSD 410-312339/3-A	Lab Control Sample Dup	70	82	48	78	36	88
MB 410-312336/1-A	Method Blank	52	63	33	65	24	77
MB 410-312339/1-A	Method Blank	25	71	28	72	21	77

Surrogate Legend

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

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
410-103227-1	ORS-INFLUENT	100

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
410-103227-2	RECEIVING_WATER-002	101

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
LCS 410-313094/5	Lab Control Sample	88

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT-F1 (63-135)
LCSD 410-313094/6	Lab Control Sample Dup	88
MB 410-313094/4	Method Blank	101

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	Propene1 (43-133)
410-103227-1	ORS-INFLUENT	86
410-103227-1 - DL	ORS-INFLUENT	99

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	Propene1 (43-133)
410-103227-2	RECEIVING_WATER-002	93

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	Propene1 (43-133)
LCS 410-310570/2-A	Lab Control Sample	113
LCS 410-311579/2-A	Lab Control Sample	108
LCSD 410-310570/3-A	Lab Control Sample Dup	112
LCSD 410-311579/3-A	Lab Control Sample Dup	112
MB 410-310570/1-A	Method Blank	115
MB 410-311579/1-A	Method Blank	110

Surrogate Legend

Propene = Propene

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTP1 (43-131)
410-103227-1	ORS-INFLUENT	86 cn

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Surface Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTP1
Lab Sample ID	**Client Sample ID**	**(43-131)**
410-103227-2	RECEIVING_WATER-002	79 cn

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTP1
Lab Sample ID	**Client Sample ID**	**(43-131)**
LCS 410-312852/2-A	Lab Control Sample	103
LCSD 410-312852/3-A	Lab Control Sample Dup	100
MB 410-312852/1-A	Method Blank	84

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-310759/5
Matrix: Water
Analysis Batch: 310759

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/26/22 15:01	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/26/22 15:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/26/22 15:01	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			10/26/22 15:01	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			10/26/22 15:01	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			10/26/22 15:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Benzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
1,4-Dioxane	ND		100	82	ug/L			10/26/22 15:01	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Bromoform	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Bromomethane	ND		1.0	0.44	ug/L			10/26/22 15:01	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			10/26/22 15:01	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			10/26/22 15:01	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 15:01	1
Chlorobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Chloroethane	ND		1.0	0.44	ug/L			10/26/22 15:01	1
2-Hexanone	ND		2.0	0.50	ug/L			10/26/22 15:01	1
Chloroform	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Chloromethane	ND		1.0	0.64	ug/L			10/26/22 15:01	1
2-Propanol	ND		20	8.0	ug/L			10/26/22 15:01	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			10/26/22 15:01	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			10/26/22 15:01	1
Acetonitrile	ND		50	14	ug/L			10/26/22 15:01	1
Benzyl chloride	ND		1.0	0.25	ug/L			10/26/22 15:01	1
Bromobenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Butyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:01	1
Ethylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Carbon disulfide	ND		1.0	0.45	ug/L			10/26/22 15:01	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-310759/5
Matrix: Water
Analysis Batch: 310759

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Dibromomethane	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			10/26/22 15:01	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			10/26/22 15:01	1
Ethyl acetate	ND		5.0	0.80	ug/L			10/26/22 15:01	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Freon 113	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Freon 123a	ND		1.0	0.44	ug/L			10/26/22 15:01	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Isobutyl alcohol	ND		50	11	ug/L			10/26/22 15:01	1
Isopropyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:01	1
Isopropylbenzene	ND		2.0	0.50	ug/L			10/26/22 15:01	1
Methacrylonitrile	ND		10	2.0	ug/L			10/26/22 15:01	1
Methyl iodide	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Methyl methacrylate	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Naphthalene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Propionitrile	ND		20	8.5	ug/L			10/26/22 15:01	1
Styrene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			10/26/22 15:01	1
m&p-Xylene	ND		1.0	0.30	ug/L			10/26/22 15:01	1
n-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
n-Heptane	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/26/22 15:01	1
n-Hexane	ND		1.0	0.46	ug/L			10/26/22 15:01	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			10/26/22 15:01	1
n-Propyl acetate	ND		5.0	0.60	ug/L			10/26/22 15:01	1
Toluene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
N-Propylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
o-Xylene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			10/26/22 15:01	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Trichloroethene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
t-Butyl alcohol	ND		20	6.0	ug/L			10/26/22 15:01	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			10/26/22 15:01	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/26/22 15:01	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			10/26/22 15:01	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/26/22 15:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			10/26/22 15:01	1
Acrolein	ND		10	3.0	ug/L			10/26/22 15:01	1
Acrylonitrile	ND		3.0	1.1	ug/L			10/26/22 15:01	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-310759/5
Matrix: Water
Analysis Batch: 310759

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*10/26/22 15:01*	*1*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*10/26/22 15:01*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*10/26/22 15:01*	*1*
Toluene-d8 (Surr)	*95*		*60 - 140*		*10/26/22 15:01*	*1*

Lab Sample ID: LCS 410-310759/1003
Matrix: Water
Analysis Batch: 310759

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	20.7		ug/L		103	60 - 140
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	20.0	23.9		ug/L		119	60 - 140
1,1,2-Trichloroethane	20.0	22.5		ug/L		113	70 - 130
1,1-Dichloroethane	20.0	19.5		ug/L		97	70 - 130
1,1-Dichloroethene	20.0	18.9		ug/L		94	50 - 150
1,1-Dichloropropene	20.0	19.9		ug/L		100	60 - 140
1,2,3-Trichlorobenzene	20.0	16.1		ug/L		81	60 - 140
1,2,3-Trichloropropane	20.0	22.8		ug/L		114	60 - 140
1,2,4-Trichlorobenzene	20.0	14.5		ug/L		72	60 - 140
1,2-Dichloroethane	20.0	17.2		ug/L		86	70 - 130
1,2,4-Trimethylbenzene	20.0	21.3		ug/L		106	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	21.7		ug/L		109	60 - 140
1,2-Dichloropropane	20.0	22.3		ug/L		111	35 - 165
1,2-Dibromoethane	20.0	21.8		ug/L		109	60 - 140
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	65 - 135
1,2-Dichloroethene (total)	40.0	37.1		ug/L		93	60 - 140
1,3,5-Trimethylbenzene	20.0	21.1		ug/L		105	60 - 140
1,3-Dichlorobenzene	20.0	18.9		ug/L		94	70 - 130
1,3-Dichloropropane	20.0	21.0		ug/L		105	60 - 140
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	65 - 135
Benzene	20.0	21.5		ug/L		107	65 - 135
1,4-Dioxane	500	441		ug/L		88	60 - 140
Bromodichloromethane	20.0	21.1		ug/L		106	65 - 135
2,2-Dichloropropane	20.0	19.4		ug/L		97	60 - 140
Bromoform	20.0	24.6		ug/L		123	70 - 130
Bromomethane	20.0	19.2		ug/L		96	15 - 185
2-Chloro-1,3-butadiene	20.0	22.5		ug/L		112	60 - 140
Carbon tetrachloride	20.0	20.9		ug/L		105	70 - 130
2-Chlorotoluene	20.0	21.0		ug/L		105	60 - 140
Chlorobenzene	20.0	21.1		ug/L		105	65 - 135
Chloroethane	20.0	21.9		ug/L		109	40 - 160
2-Hexanone	250	330		ug/L		132	60 - 140
Chloroform	20.0	19.2		ug/L		96	70 - 135
Chloromethane	20.0	23.9		ug/L		119	10 - 200
2-Propanol	150	177		ug/L		118	60 - 140
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	60 - 140
cis-1,3-Dichloropropene	20.0	20.2		ug/L		101	25 - 175

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-310759/1003
Matrix: Water
Analysis Batch: 310759

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorotoluene	20.0	23.1		ug/L		116	60 - 140
Dibromochloromethane	20.0	23.9		ug/L		119	70 - 135
4-Methyl-2-pentanone	250	294		ug/L		117	60 - 140
Benzyl chloride	20.0	21.9		ug/L		110	60 - 140
Bromobenzene	20.0	21.5		ug/L		107	60 - 140
Ethylbenzene	20.0	21.5		ug/L		108	60 - 140
Carbon disulfide	20.0	24.2		ug/L		121	60 - 140
Cyclohexane	20.0	22.3		ug/L		112	60 - 140
Dibromomethane	20.0	18.7		ug/L		93	60 - 140
Dichlorodifluoromethane	20.0	22.9		ug/L		114	60 - 140
Dichlorofluoromethane	20.0	21.6		ug/L		108	60 - 140
Ethyl methacrylate	20.0	19.2		ug/L		96	60 - 140
Ethyl t-butyl ether	20.0	20.5		ug/L		102	60 - 140
Freon 113	20.0	21.9		ug/L		109	60 - 140
Freon 123a	20.0	21.4		ug/L		107	60 - 140
Hexachlorobutadiene	20.0	16.0		ug/L		80	60 - 140
Methylene Chloride	20.0	17.7		ug/L		88	60 - 140
Isobutyl alcohol	500	519		ug/L		104	60 - 140
Isopropylbenzene	20.0	20.3		ug/L		102	60 - 140
Methacrylonitrile	150	138		ug/L		92	60 - 140
Methyl iodide	20.0	18.8		ug/L		94	60 - 140
Methyl methacrylate	20.0	20.6		ug/L		103	60 - 140
Naphthalene	20.0	15.7		ug/L		78	60 - 140
Propionitrile	150	145		ug/L		96	60 - 140
Styrene	20.0	22.1		ug/L		110	60 - 140
di-Isopropyl ether	20.0	19.3		ug/L		97	60 - 140
m&p-Xylene	40.0	45.6		ug/L		114	60 - 140
n-Butylbenzene	20.0	19.5		ug/L		98	60 - 140
n-Heptane	20.0	21.4		ug/L		107	60 - 140
Tetrachloroethene	20.0	20.5		ug/L		102	70 - 130
n-Hexane	20.0	24.3		ug/L		122	60 - 140
Tetrahydrofuran	100	89.1		ug/L		89	60 - 140
Toluene	20.0	22.5		ug/L		112	70 - 130
N-Propylbenzene	20.0	22.0		ug/L		110	60 - 140
o-Xylene	20.0	20.4		ug/L		102	60 - 140
trans-1,2-Dichloroethene	20.0	17.7		ug/L		88	70 - 130
p-Isopropyltoluene	20.0	20.1		ug/L		101	60 - 140
trans-1,3-Dichloropropene	20.0	23.2		ug/L		116	50 - 150
sec-Butylbenzene	20.0	20.3		ug/L		102	60 - 140
t-Amyl methyl ether	20.0	17.3		ug/L		87	60 - 140
Trichloroethene	20.0	19.5		ug/L		97	65 - 135
t-Butyl alcohol	200	161		ug/L		81	60 - 140
Trichlorofluoromethane	20.0	18.9		ug/L		94	50 - 150
tert-Butylbenzene	20.0	19.8		ug/L		99	60 - 140
trans-1,4-Dichloro-2-butene	100	135		ug/L		135	60 - 140
Vinyl chloride	20.0	22.0		ug/L		110	10 - 195
Xylenes, Total	60.0	66.0		ug/L		110	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-310759/1003
Matrix: Water
Analysis Batch: 310759

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
4-Bromofluorobenzene (Surr)	103		60 - 140
Dibromofluoromethane (Surr)	93		60 - 140
Toluene-d8 (Surr)	109		60 - 140

Lab Sample ID: LCS 410-310759/1004
Matrix: Water
Analysis Batch: 310759

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	150	149		ug/L		99	60 - 140
Butyl acetate	20.0	15.8		ug/L		79	60 - 140
Ethyl acetate	20.0	19.2		ug/L		96	60 - 140
Isopropyl acetate	20.0	16.6		ug/L		83	60 - 140
n-Propyl acetate	20.0	17.6		ug/L		88	60 - 140
Vinyl acetate	100	99.3		ug/L		99	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
4-Bromofluorobenzene (Surr)	117		60 - 140
Dibromofluoromethane (Surr)	87		60 - 140
Toluene-d8 (Surr)	93		60 - 140

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

Lab Sample ID: MB 410-312990/6
Matrix: Water
Analysis Batch: 312990

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/02/22 10:55	1
Acetone	ND		20	0.70	ug/L			11/02/22 10:55	1
2-Butanone	ND		10	0.50	ug/L			11/02/22 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		11/02/22 10:55	1
Dibromofluoromethane (Surr)	102		80 - 120		11/02/22 10:55	1
4-Bromofluorobenzene (Surr)	99		80 - 120		11/02/22 10:55	1
Toluene-d8 (Surr)	96		80 - 120		11/02/22 10:55	1

Lab Sample ID: LCS 410-312990/4
Matrix: Water
Analysis Batch: 312990

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tertiary butyl ether	20.0	18.0		ug/L		90	69 - 122
Acetone	250	236		ug/L		94	54 - 157
2-Butanone	250	271		ug/L		108	59 - 135

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

Lab Sample ID: LCS 410-312990/4
Matrix: Water
Analysis Batch: 312990

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 410-313828/6
Matrix: Water
Analysis Batch: 313828

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/04/22 10:08	1
Acetone	ND		20	0.70	ug/L			11/04/22 10:08	1
2-Butanone	ND		10	0.50	ug/L			11/04/22 10:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		11/04/22 10:08	1
Dibromofluoromethane (Surr)	100		80 - 120		11/04/22 10:08	1
4-Bromofluorobenzene (Surr)	106		80 - 120		11/04/22 10:08	1
Toluene-d8 (Surr)	95		80 - 120		11/04/22 10:08	1

Lab Sample ID: LCS 410-313828/4
Matrix: Water
Analysis Batch: 313828

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tertiary butyl ether	20.0	18.3		ug/L		92	69 - 122
Acetone	250	223		ug/L		89	54 - 157
2-Butanone	250	262		ug/L		105	59 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	107		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-312336/1-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-312336/1-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
1,4-Dioxane	ND		5.0	2.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		10/31/22 15:44	11/02/22 00:09	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Chlorophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Methylphenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Nitroaniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
2-Nitrophenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		10/31/22 15:44	11/02/22 00:09	1
3-Nitroaniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Chloroaniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Methylphenol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Nitroaniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
4-Nitrophenol	ND		5.0	0.90	ug/L		10/31/22 15:44	11/02/22 00:09	1
Acenaphthene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
Acenaphthylene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Acetophenone	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Aniline	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Anthracene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
a-Terpineol	ND		5.0	0.60	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzidine	ND		60	6.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Benzyl alcohol	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Carbazole	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-312336/1-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		10/31/22 15:44	11/02/22 00:09	1
Dibenzofuran	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Diethylphthalate	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Dimethylphthalate	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Diphenyl ether	ND		5.0	0.75	ug/L		10/31/22 15:44	11/02/22 00:09	1
Fluoranthene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Fluorene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Hexachloroethane	ND		2.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		10/31/22 15:44	11/02/22 00:09	1
Isophorone	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Naphthalene	ND		2.0	0.30	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Decane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Docosane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Eicosane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Hexadecane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Nitrobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Octadecane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
n-Tetradecane	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
o-Toluidine	ND		5.0	1.0	ug/L		10/31/22 15:44	11/02/22 00:09	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Pentachlorophenol	ND		5.0	0.80	ug/L		10/31/22 15:44	11/02/22 00:09	1
Phenanthrene	ND		5.0	0.20	ug/L		10/31/22 15:44	11/02/22 00:09	1
Phenol	ND		1.0	0.50	ug/L		10/31/22 15:44	11/02/22 00:09	1
Pyrene	ND		5.0	0.25	ug/L		10/31/22 15:44	11/02/22 00:09	1
Pyridine	ND		5.0	0.80	ug/L		10/31/22 15:44	11/02/22 00:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*52*		*10 - 150*	*10/31/22 15:44*	*11/02/22 00:09*	*1*
2-Fluorobiphenyl (Surr)	*63*		*32 - 115*	*10/31/22 15:44*	*11/02/22 00:09*	*1*
2-Fluorophenol (Surr)	*33*		*10 - 83*	*10/31/22 15:44*	*11/02/22 00:09*	*1*
Nitrobenzene-d5 (Surr)	*65*		*41 - 111*	*10/31/22 15:44*	*11/02/22 00:09*	*1*
Phenol-d5 (Surr)	*24*		*10 - 59*	*10/31/22 15:44*	*11/02/22 00:09*	*1*
p-Terphenyl-d14 (Surr)	*77*		*37 - 140*	*10/31/22 15:44*	*11/02/22 00:09*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-312336/2-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	50.0	41.9		ug/L		84	58 - 111
1,2,4,5-Tetrachlorobenzene	50.0	36.3		ug/L		73	36 - 106
1,2,4-Trichlorobenzene	50.0	37.4		ug/L		75	44 - 142
1,2-Dichlorobenzene	50.0	41.3		ug/L		83	36 - 95
1,2-Diphenylhydrazine	50.0	47.6		ug/L		95	57 - 127
1,3-Dichlorobenzene	50.0	36.6		ug/L		73	32 - 95
1,4-Dichlorobenzene	50.0	39.5		ug/L		79	33 - 92
1,4-Dioxane	50.0	20.4		ug/L		41	30 - 60
1-Methylnaphthalene	50.0	44.5		ug/L		89	53 - 105
1-Methylphenanthrene	50.0	47.9		ug/L		96	70 - 114
2,2'-oxybis[1-chloropropane]	50.0	32.0		ug/L		64	48 - 110
2,3,4,6-Tetrachlorophenol	50.0	39.1		ug/L		78	61 - 117
2,3-Dichloroaniline	50.0	42.7		ug/L		85	59 - 116
2,4,5-Trichlorophenol	50.0	46.6		ug/L		93	67 - 122
2,4,6-Trichlorophenol	50.0	42.5		ug/L		85	37 - 144
2,4-Dichlorophenol	50.0	41.9		ug/L		84	39 - 135
2,4-Dimethylphenol	50.0	42.6		ug/L		85	32 - 120
2,4-Dinitrophenol	100	92.1		ug/L		92	10 - 191
2,4-Dinitrotoluene	50.0	55.3		ug/L		111	39 - 139
2,6-Dichlorophenol	50.0	41.9		ug/L		84	72 - 113
2,6-Dinitrotoluene	50.0	46.8		ug/L		94	50 - 158
2-Chloronaphthalene	50.0	39.7		ug/L		79	60 - 120
2-Chlorophenol	50.0	38.4		ug/L		77	23 - 134
2-Methylnaphthalene	50.0	39.6		ug/L		79	44 - 111
2-Methylphenol	50.0	38.7		ug/L		77	52 - 105
2-Nitroaniline	50.0	51.3		ug/L		103	60 - 125
2-Nitrophenol	50.0	45.0		ug/L		90	29 - 182
3,3'-Dichlorobenzidine	100	83.6		ug/L		84	10 - 200
3-Nitroaniline	50.0	46.4		ug/L		93	58 - 114
4,6-Dinitro-2-methylphenol	100	106		ug/L		106	10 - 181
4-Bromophenyl-phenylether	50.0	42.7		ug/L		85	53 - 127
4-Chloro-3-methylphenol	50.0	44.3		ug/L		89	22 - 147
4-Chloroaniline	50.0	32.4		ug/L		65	39 - 104
4-Chlorophenyl-phenylether	50.0	42.2		ug/L		84	25 - 158
4-Methylphenol	50.0	31.4		ug/L		63	47 - 96
4-Nitroaniline	50.0	48.0		ug/L		96	59 - 111
4-Nitrophenol	100	53.2		ug/L		53	10 - 132
Acenaphthene	50.0	46.0		ug/L		92	47 - 145
Acenaphthylene	50.0	45.4		ug/L		91	33 - 145
Acetophenone	50.0	44.8		ug/L		90	56 - 108
Aniline	50.0	30.9		ug/L		62	26 - 95
Anthracene	50.0	51.1		ug/L		102	27 - 133
a-Terpineol	50.0	39.3		ug/L		79	65 - 117
Benzidine	100	34.4	J	ug/L		34	10 - 72
Benzo[a]anthracene	50.0	46.4		ug/L		93	33 - 143
Benzo[a]pyrene	50.0	51.1		ug/L		102	17 - 163
Benzo[b]fluoranthene	50.0	53.5		ug/L		107	24 - 159
Benzo[g,h,i]perylene	50.0	49.2		ug/L		98	10 - 200

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-312336/2-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[k]fluoranthene	50.0	46.1		ug/L		92	11 - 162
Benzyl alcohol	50.0	39.7		ug/L		79	38 - 104
Bis(2-chloroethoxy)methane	50.0	42.4		ug/L		85	33 - 184
Bis(2-chloroethyl)ether	50.0	43.4		ug/L		87	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	49.8		ug/L		100	10 - 158
Butylbenzylphthalate	50.0	42.9		ug/L		86	10 - 152
Carbazole	50.0	50.4		ug/L		101	67 - 121
Chrysene	50.0	43.7		ug/L		87	17 - 168
Dibenz(a,h)anthracene	50.0	51.1		ug/L		102	10 - 200
Dibenzofuran	50.0	45.4		ug/L		91	64 - 106
Diethylphthalate	50.0	46.1		ug/L		92	10 - 120
Dimethylphthalate	50.0	39.4		ug/L		79	10 - 120
Di-n-butyl phthalate	50.0	53.4		ug/L		107	10 - 120
Di-n-octyl phthalate	50.0	62.0		ug/L		124	10 - 146
Diphenyl ether	50.0	45.4		ug/L		91	59 - 105
Fluoranthene	50.0	46.0		ug/L		92	26 - 137
Fluorene	50.0	46.4		ug/L		93	59 - 121
Hexachlorobenzene	50.0	36.7		ug/L		73	10 - 152
Hexachlorobutadiene	50.0	31.0		ug/L		62	24 - 120
Hexachlorocyclopentadiene	50.0	23.0		ug/L		46	10 - 67
Hexachloroethane	50.0	37.7		ug/L		75	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	55.2		ug/L		110	10 - 171
Isophorone	50.0	43.3		ug/L		87	21 - 196
Naphthalene	50.0	40.8		ug/L		82	21 - 133
n-Decane	50.0	24.8		ug/L		50	16 - 110
n-Docosane	50.0	46.0		ug/L		92	53 - 177
n-Eicosane	50.0	44.1		ug/L		88	62 - 154
n-Hexadecane	50.0	38.2		ug/L		76	43 - 133
Nitrobenzene	50.0	41.3		ug/L		83	35 - 180
N-Nitrosodimethylamine	50.0	20.3		ug/L		41	38 - 74
N-Nitrosodi-n-propylamine	50.0	43.3		ug/L		87	10 - 200
N-Nitrosodiphenylamine	42.5	42.2		ug/L		99	70 - 121
n-Octadecane	50.0	41.5		ug/L		83	55 - 138
n-Tetradecane	50.0	33.0		ug/L		66	26 - 140
Pentachlorophenol	100	72.6		ug/L		73	14 - 176
Phenanthrene	50.0	48.3		ug/L		97	54 - 120
Phenol	50.0	19.8		ug/L		40	10 - 120
Pyrene	50.0	45.2		ug/L		90	52 - 120
Pyridine	100	39.9		ug/L		40	18 - 72

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*66*		*10 - 150*
2-Fluorobiphenyl (Surr)	*73*		*32 - 115*
2-Fluorophenol (Surr)	*45*		*10 - 83*
Nitrobenzene-d5 (Surr)	*70*		*41 - 111*
Phenol-d5 (Surr)	*35*		*10 - 59*
p-Terphenyl-d14 (Surr)	*72*		*37 - 140*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-312336/4-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312336

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
N-Nitrosodiethylamine			50.0	38.1		ug/L		76	68 - 107		
N-Nitrosodi-n-butylamine			50.0	40.9		ug/L		82	57 - 101		
N-Nitrosopyrrolidine			50.0	39.9		ug/L		80	61 - 103		
o-Toluidine			50.0	35.7		ug/L		71	50 - 97		
Pentachlorobenzene			50.0	37.0		ug/L		74	31 - 116		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*58*		*10 - 150*
2-Fluorobiphenyl (Surr)	*80*		*32 - 115*
2-Fluorophenol (Surr)	*42*		*10 - 83*
Nitrobenzene-d5 (Surr)	*75*		*41 - 111*
Phenol-d5 (Surr)	*32*		*10 - 59*
p-Terphenyl-d14 (Surr)	*80*		*37 - 140*

Lab Sample ID: LCSD 410-312336/3-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312336

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			50.0	46.0		ug/L		92	58 - 111	9	30
1,2,4,5-Tetrachlorobenzene			50.0	37.8		ug/L		76	36 - 106	4	30
1,2,4-Trichlorobenzene			50.0	39.6		ug/L		79	44 - 142	6	30
1,2-Dichlorobenzene			50.0	44.4		ug/L		89	36 - 95	7	30
1,2-Diphenylhydrazine			50.0	51.0		ug/L		102	57 - 127	7	30
1,3-Dichlorobenzene			50.0	39.9		ug/L		80	32 - 95	9	30
1,4-Dichlorobenzene			50.0	42.7		ug/L		85	33 - 92	8	30
1,4-Dioxane			50.0	17.9		ug/L		36	30 - 60	13	30
1-Methylnaphthalene			50.0	46.3		ug/L		93	53 - 105	4	30
1-Methylphenanthrene			50.0	52.2		ug/L		104	70 - 114	9	30
2,2'-oxybis[1-chloropropane]			50.0	34.6		ug/L		69	48 - 110	8	30
2,3,4,6-Tetrachlorophenol			50.0	39.2		ug/L		78	61 - 117	0	30
2,3-Dichloroaniline			50.0	48.0		ug/L		96	59 - 116	12	30
2,4,5-Trichlorophenol			50.0	46.2		ug/L		92	67 - 122	1	30
2,4,6-Trichlorophenol			50.0	43.7		ug/L		87	37 - 144	3	30
2,4-Dichlorophenol			50.0	43.2		ug/L		86	39 - 135	3	30
2,4-Dimethylphenol			50.0	45.5		ug/L		91	32 - 120	7	30
2,4-Dinitrophenol			100	91.4		ug/L		91	10 - 191	1	30
2,4-Dinitrotoluene			50.0	58.0		ug/L		116	39 - 139	5	30
2,6-Dichlorophenol			50.0	45.4		ug/L		91	72 - 113	8	30
2,6-Dinitrotoluene			50.0	49.1		ug/L		98	50 - 158	5	30
2-Chloronaphthalene			50.0	41.3		ug/L		83	60 - 120	4	24
2-Chlorophenol			50.0	41.9		ug/L		84	23 - 134	9	30
2-Methylnaphthalene			50.0	43.2		ug/L		86	44 - 111	9	30
2-Methylphenol			50.0	40.8		ug/L		82	52 - 105	5	30
2-Nitroaniline			50.0	53.6		ug/L		107	60 - 125	4	30
2-Nitrophenol			50.0	49.2		ug/L		98	29 - 182	9	30
3,3'-Dichlorobenzidine			100	91.3		ug/L		91	10 - 200	9	30
3-Nitroaniline			50.0	50.3		ug/L		101	58 - 114	8	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-312336/3-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312336

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	100	107		ug/L		107	10 - 181	2	30
4-Bromophenyl-phenylether	50.0	43.0		ug/L		86	53 - 127	1	30
4-Chloro-3-methylphenol	50.0	48.4		ug/L		97	22 - 147	9	30
4-Chloroaniline	50.0	36.9		ug/L		74	39 - 104	13	30
4-Chlorophenyl-phenylether	50.0	44.3		ug/L		89	25 - 158	5	30
4-Methylphenol	50.0	30.4		ug/L		61	47 - 96	3	30
4-Nitroaniline	50.0	51.2		ug/L		102	59 - 111	6	30
4-Nitrophenol	100	49.8		ug/L		50	10 - 132	7	30
Acenaphthene	50.0	47.9		ug/L		96	47 - 145	4	30
Acenaphthylene	50.0	48.3		ug/L		97	33 - 145	6	30
Acetophenone	50.0	48.7		ug/L		97	56 - 108	8	30
Aniline	50.0	39.0		ug/L		78	26 - 95	23	30
Anthracene	50.0	53.3		ug/L		107	27 - 133	4	30
a-Terpineol	50.0	41.7		ug/L		83	65 - 117	6	30
Benzidine	100	25.4	J	ug/L		25	10 - 72	30	30
Benzo[a]anthracene	50.0	51.0		ug/L		102	33 - 143	9	30
Benzo[a]pyrene	50.0	53.0		ug/L		106	17 - 163	4	30
Benzo[b]fluoranthene	50.0	57.8		ug/L		116	24 - 159	8	30
Benzo[g,h,i]perylene	50.0	54.3		ug/L		109	10 - 200	10	30
Benzo[k]fluoranthene	50.0	46.9		ug/L		94	11 - 162	2	30
Benzyl alcohol	50.0	44.5		ug/L		89	38 - 104	11	30
Bis(2-chloroethoxy)methane	50.0	44.6		ug/L		89	33 - 184	5	30
Bis(2-chloroethyl)ether	50.0	46.6		ug/L		93	12 - 158	7	30
Bis(2-ethylhexyl) phthalate	50.0	55.7		ug/L		111	10 - 158	11	30
Butylbenzylphthalate	50.0	45.6		ug/L		91	10 - 152	6	30
Carbazole	50.0	52.8		ug/L		106	67 - 121	5	30
Chrysene	50.0	49.1		ug/L		98	17 - 168	12	30
Dibenz(a,h)anthracene	50.0	59.2		ug/L		118	10 - 200	15	30
Dibenzofuran	50.0	47.1		ug/L		94	64 - 106	4	30
Diethylphthalate	50.0	49.1		ug/L		98	10 - 120	6	30
Dimethylphthalate	50.0	43.6		ug/L		87	10 - 120	10	30
Di-n-butyl phthalate	50.0	57.1		ug/L		114	10 - 120	7	30
Di-n-octyl phthalate	50.0	67.9		ug/L		136	10 - 146	9	30
Diphenyl ether	50.0	47.4		ug/L		95	59 - 105	4	30
Fluoranthene	50.0	49.7		ug/L		99	26 - 137	8	30
Fluorene	50.0	49.4		ug/L		99	59 - 121	6	30
Hexachlorobenzene	50.0	41.0		ug/L		82	10 - 152	11	30
Hexachlorobutadiene	50.0	34.5		ug/L		69	24 - 120	11	30
Hexachlorocyclopentadiene	50.0	25.0		ug/L		50	10 - 67	8	30
Hexachloroethane	50.0	43.6		ug/L		87	40 - 120	14	30
Indeno[1,2,3-cd]pyrene	50.0	58.2		ug/L		116	10 - 171	5	30
Isophorone	50.0	46.9		ug/L		94	21 - 196	8	30
Naphthalene	50.0	43.5		ug/L		87	21 - 133	6	30
n-Decane	50.0	29.2		ug/L		58	16 - 110	16	30
n-Docosane	50.0	50.6		ug/L		101	53 - 177	10	30
n-Eicosane	50.0	50.3		ug/L		101	62 - 154	13	30
n-Hexadecane	50.0	43.2		ug/L		86	43 - 133	12	30
Nitrobenzene	50.0	43.8		ug/L		88	35 - 180	6	30
N-Nitrosodimethylamine	50.0	23.8		ug/L		48	38 - 74	16	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-312336/3-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312336

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodi-n-propylamine			50.0	45.8		ug/L		92	10 - 200	6	30
N-Nitrosodiphenylamine			42.5	43.4		ug/L		102	70 - 121	3	30
n-Octadecane			50.0	46.3		ug/L		93	55 - 138	11	30
n-Tetradecane			50.0	35.2		ug/L		70	26 - 140	6	30
Pentachlorophenol			100	70.5		ug/L		71	14 - 176	3	30
Phenanthrene			50.0	50.6		ug/L		101	54 - 120	5	30
Phenol			50.0	19.3		ug/L		39	10 - 120	2	30
Pyrene			50.0	48.5		ug/L		97	52 - 120	7	30
Pyridine			100	45.9		ug/L		46	18 - 72	14	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*71*		*10 - 150*
2-Fluorobiphenyl (Surr)	*77*		*32 - 115*
2-Fluorophenol (Surr)	*44*		*10 - 83*
Nitrobenzene-d5 (Surr)	*76*		*41 - 111*
Phenol-d5 (Surr)	*33*		*10 - 59*
p-Terphenyl-d14 (Surr)	*86*		*37 - 140*

Lab Sample ID: LCSD 410-312336/5-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312336

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodiethylamine			50.0	35.6		ug/L		71	68 - 107	7	30
N-Nitrosodi-n-butylamine			50.0	37.6		ug/L		75	57 - 101	8	30
N-Nitrosopyrrolidine			50.0	35.7		ug/L		71	61 - 103	11	30
o-Toluidine			50.0	31.9		ug/L		64	50 - 97	11	30
Pentachlorobenzene			50.0	31.0		ug/L		62	31 - 116	18	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*54*		*10 - 150*
2-Fluorobiphenyl (Surr)	*68*		*32 - 115*
2-Fluorophenol (Surr)	*32*		*10 - 83*
Nitrobenzene-d5 (Surr)	*65*		*41 - 111*
Phenol-d5 (Surr)	*24*		*10 - 59*
p-Terphenyl-d14 (Surr)	*80*		*37 - 140*

Lab Sample ID: MB 410-312339/1-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzoic acid	ND		30	4.0	ug/L		10/31/22 15:47	11/02/22 01:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*25*		*10 - 150*	*10/31/22 15:47*	*11/02/22 01:56*	*1*
2-Fluorobiphenyl (Surr)	*71*		*32 - 115*	*10/31/22 15:47*	*11/02/22 01:56*	*1*
2-Fluorophenol (Surr)	*28*		*10 - 83*	*10/31/22 15:47*	*11/02/22 01:56*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-312339/1-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312339

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		41 - 111	10/31/22 15:47	11/02/22 01:56	1
Phenol-d5 (Surr)	21		10 - 59	10/31/22 15:47	11/02/22 01:56	1
p-Terphenyl-d14 (Surr)	77		37 - 140	10/31/22 15:47	11/02/22 01:56	1

Lab Sample ID: LCS 410-312339/2-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312339

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzoic acid			50.0	9.19	J	ug/L		18	10 - 96		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromofenol (Surr)	70		10 - 150
2-Fluorobiphenyl (Surr)	83		32 - 115
2-Fluorophenol (Surr)	44		10 - 83
Nitrobenzene-d5 (Surr)	78		41 - 111
Phenol-d5 (Surr)	34		10 - 59
p-Terphenyl-d14 (Surr)	92		37 - 140

Lab Sample ID: LCSD 410-312339/3-A
Matrix: Water
Analysis Batch: 312567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312339

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzoic acid			50.0	12.4	J	ug/L		25	10 - 96	30	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromofenol (Surr)	70		10 - 150
2-Fluorobiphenyl (Surr)	82		32 - 115
2-Fluorophenol (Surr)	48		10 - 83
Nitrobenzene-d5 (Surr)	78		41 - 111
Phenol-d5 (Surr)	36		10 - 59
p-Terphenyl-d14 (Surr)	88		37 - 140

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 410-313094/4
Matrix: Water
Analysis Batch: 313094

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	ND		50	23	ug/L			11/02/22 14:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	101		63 - 135		11/02/22 14:46	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 410-313094/5
Matrix: Water
Analysis Batch: 313094

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
GRO (1C)			1100	997		ug/L		91	70 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*88*		*63 - 135*

Lab Sample ID: LCSD 410-313094/6
Matrix: Water
Analysis Batch: 313094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
GRO (1C)			1100	1050		ug/L		96	70 - 123	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*88*		*63 - 135*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-310570/1-A
Matrix: Water
Analysis Batch: 310575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/26/22 08:12	10/26/22 14:08	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/26/22 08:12	10/26/22 14:08	1
Methane (1C)	ND		5.0	3.0	ug/L		10/26/22 08:12	10/26/22 14:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*115*		*43 - 133*	*10/26/22 08:12*	*10/26/22 14:08*	*1*

Lab Sample ID: LCS 410-310570/2-A
Matrix: Water
Analysis Batch: 310575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310570

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane (1C)			61.7	66.6		ug/L		108	85 - 115		
Ethene (1C)			58.3	63.0		ug/L		108	83 - 115		
Methane (1C)			59.8	67.8		ug/L		114	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*113*		*43 - 133*

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 410-310570/3-A
Matrix: Water
Analysis Batch: 310575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 310570

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)			61.7	66.1		ug/L		107	85 - 115	1	20
Ethene (1C)			58.3	63.0		ug/L		108	83 - 115	0	20
Methane (1C)			59.8	67.5		ug/L		113	85 - 115	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene (1C)	*112*		*43 - 133*

Lab Sample ID: MB 410-311579/1-A
Matrix: Water
Analysis Batch: 311589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/28/22 07:45	10/28/22 08:32	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/28/22 07:45	10/28/22 08:32	1
Methane (1C)	ND		5.0	3.0	ug/L		10/28/22 07:45	10/28/22 08:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*110*		*43 - 133*	*10/28/22 07:45*	*10/28/22 08:32*	*1*

Lab Sample ID: LCS 410-311579/2-A
Matrix: Water
Analysis Batch: 311589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311579

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane (1C)			61.7	62.4		ug/L		101	85 - 115
Ethene (1C)			58.3	59.0		ug/L		101	83 - 115
Methane (1C)			59.8	64.0		ug/L		107	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*108*		*43 - 133*

Lab Sample ID: LCSD 410-311579/3-A
Matrix: Water
Analysis Batch: 311589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 311579

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)			61.7	64.0		ug/L		104	85 - 115	2	20
Ethene (1C)			58.3	60.0		ug/L		103	83 - 115	2	20
Methane (1C)			59.8	65.8		ug/L		110	85 - 115	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene (1C)	*112*		*43 - 133*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 410-312852/1-A
Matrix: Water
Analysis Batch: 313227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	ND		0.20	0.074	mg/L		11/01/22 20:07	11/02/22 18:03	1
>C28-C35 (1C)	ND		0.20	0.074	mg/L		11/01/22 20:07	11/02/22 18:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*84*		*43 - 131*	*11/01/22 20:07*	*11/02/22 18:03*	*1*

Lab Sample ID: LCS 410-312852/2-A
Matrix: Water
Analysis Batch: 313227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312852

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DRO (C10-C28) (1C)			3.20	3.09		mg/L		97	41 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o- terphenyl (Surr) (1C)	*103*		*43 - 131*

Lab Sample ID: LCSD 410-312852/3-A
Matrix: Water
Analysis Batch: 313227

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 312852

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C28) (1C)			3.20	3.03		mg/L		95	41 - 115	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o- terphenyl (Surr) (1C)	*100*		*43 - 131*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-314871/5
Matrix: Water
Analysis Batch: 314871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			11/07/22 16:03	1
Chloride	ND		1.5	0.60	mg/L			11/07/22 16:03	1

Lab Sample ID: LCS 410-314871/3
Matrix: Water
Analysis Batch: 314871

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			7.50	7.10		mg/L		95	90 - 110		
Chloride			3.00	3.02		mg/L		101	90 - 110		

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 410-314871/4
Matrix: Water
Analysis Batch: 314871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			7.50	7.09		mg/L		95	90 - 110	0	20
Chloride			3.00	3.01		mg/L		100	90 - 110	0	20

Lab Sample ID: MB 410-315903/5
Matrix: Water
Analysis Batch: 315903

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			11/09/22 16:09	1
Chloride	ND		1.5	0.60	mg/L			11/09/22 16:09	1

Lab Sample ID: LCS 410-315903/3
Matrix: Water
Analysis Batch: 315903

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate			7.50	7.28		mg/L		97	90 - 110
Chloride			3.00	2.96		mg/L		99	90 - 110

Lab Sample ID: LCSD 410-315903/4
Matrix: Water
Analysis Batch: 315903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			7.50	7.13		mg/L		95	90 - 110	2	20
Chloride			3.00	2.94		mg/L		98	90 - 110	1	20

Lab Sample ID: MB 410-316302/5
Matrix: Water
Analysis Batch: 316302

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			11/10/22 16:07	1
Chloride	ND		1.5	0.60	mg/L			11/10/22 16:07	1

Lab Sample ID: LCS 410-316302/3
Matrix: Water
Analysis Batch: 316302

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate			7.50	7.28		mg/L		97	90 - 110
Chloride			3.00	3.15		mg/L		105	90 - 110

Lab Sample ID: LCSD 410-316302/4
Matrix: Water
Analysis Batch: 316302

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			7.50	7.24		mg/L		96	90 - 110	1	20
Chloride			3.00	3.14		mg/L		105	90 - 110	0	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-312167/1-A
Matrix: Water
Analysis Batch: 312922

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 312167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		10/31/22 08:47	11/02/22 02:05	1
Aluminum	ND		30	12	ug/L		10/31/22 08:47	11/02/22 02:05	1
Arsenic	ND		2.0	0.68	ug/L		10/31/22 08:47	11/02/22 02:05	1
Barium	ND		2.0	0.75	ug/L		10/31/22 08:47	11/02/22 02:05	1
Beryllium	ND		0.50	0.12	ug/L		10/31/22 08:47	11/02/22 02:05	1
Cadmium	ND		0.50	0.15	ug/L		10/31/22 08:47	11/02/22 02:05	1
Calcium	ND		120	50	ug/L		10/31/22 08:47	11/02/22 02:05	1
Chromium	ND		2.0	0.33	ug/L		10/31/22 08:47	11/02/22 02:05	1
Cobalt	ND		0.50	0.16	ug/L		10/31/22 08:47	11/02/22 02:05	1
Copper	ND		1.0	0.36	ug/L		10/31/22 08:47	11/02/22 02:05	1
Iron	ND		50	20	ug/L		10/31/22 08:47	11/02/22 02:05	1
Lead	ND		0.50	0.071	ug/L		10/31/22 08:47	11/02/22 02:05	1
Magnesium	ND		50	16	ug/L		10/31/22 08:47	11/02/22 02:05	1
Manganese	ND		2.0	0.95	ug/L		10/31/22 08:47	11/02/22 02:05	1
Nickel	ND		1.0	0.40	ug/L		10/31/22 08:47	11/02/22 02:05	1
Potassium	ND		200	65	ug/L		10/31/22 08:47	11/02/22 02:05	1
Selenium	ND		1.0	0.28	ug/L		10/31/22 08:47	11/02/22 02:05	1
Silver	ND		0.50	0.10	ug/L		10/31/22 08:47	11/02/22 02:05	1
Sodium	ND		200	90	ug/L		10/31/22 08:47	11/02/22 02:05	1
Thallium	ND		0.50	0.13	ug/L		10/31/22 08:47	11/02/22 02:05	1
Vanadium	ND		4.0	0.79	ug/L		10/31/22 08:47	11/02/22 02:05	1
Zinc	ND		10	4.0	ug/L		10/31/22 08:47	11/02/22 02:05	1

Lab Sample ID: LCS 410-312167/2-A
Matrix: Water
Analysis Batch: 312922

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 312167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	105		ug/L		105	85 - 115
Aluminum	5000	5240		ug/L		105	85 - 115
Arsenic	500	512		ug/L		102	85 - 115
Barium	500	535		ug/L		107	85 - 115
Beryllium	50.0	55.3		ug/L		111	85 - 115
Cadmium	50.0	52.5		ug/L		105	85 - 115
Calcium	5000	5140		ug/L		103	85 - 115
Chromium	500	518		ug/L		104	85 - 115
Cobalt	500	520		ug/L		104	85 - 115
Copper	500	516		ug/L		103	85 - 115
Iron	5000	5200		ug/L		104	85 - 115
Lead	50.0	52.5		ug/L		105	85 - 115
Magnesium	5000	5240		ug/L		105	85 - 115
Manganese	500	524		ug/L		105	85 - 115
Nickel	500	521		ug/L		104	85 - 115
Potassium	5000	5260		ug/L		105	85 - 115
Selenium	100	104		ug/L		104	85 - 115
Silver	50.0	50.6		ug/L		101	85 - 115
Sodium	5000	5150		ug/L		103	85 - 115
Thallium	100	106		ug/L		106	85 - 115
Vanadium	500	521		ug/L		104	85 - 115

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-312167/2-A
Matrix: Water
Analysis Batch: 312922

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 312167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	500	520		ug/L		104	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-311934/1-A
Matrix: Water
Analysis Batch: 312352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/29/22 09:35	10/31/22 12:39	1

Lab Sample ID: LCS 410-311934/2-A
Matrix: Water
Analysis Batch: 312352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.00109		mg/L		109	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-311469/1
Matrix: Water
Analysis Batch: 311469

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			10/27/22 21:14	1

Lab Sample ID: LCS 410-311469/2
Matrix: Water
Analysis Batch: 311469

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil & Grease)	40.0	32.60		mg/L		82	78 - 114

Lab Sample ID: LCSD 410-311469/3
Matrix: Water
Analysis Batch: 311469

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	35.10		mg/L		88	78 - 114	7	13

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-310910/3
Matrix: Water
Analysis Batch: 310910

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			10/26/22 20:50	1

Method: 180.1 - Turbidity, Nephelometric (Continued)

Lab Sample ID: LCS 410-310910/4
Matrix: Water
Analysis Batch: 310910

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Turbidity	10.0	9.0		NTU		90	90 - 104

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-311719/5
Matrix: Water
Analysis Batch: 311719

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			10/27/22 20:12	1

Lab Sample ID: LCS 410-311719/10
Matrix: Water
Analysis Batch: 311719

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	189	175		mg/L		93	82 - 106

Lab Sample ID: LCSD 410-311719/11
Matrix: Water
Analysis Batch: 311719

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	189	178		mg/L		94	82 - 106	2	10

Lab Sample ID: MB 410-311721/27
Matrix: Water
Analysis Batch: 311721

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			10/27/22 21:07	1

Lab Sample ID: MB 410-311721/55
Matrix: Water
Analysis Batch: 311721

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			10/27/22 23:42	1

Lab Sample ID: LCS 410-311721/30
Matrix: Water
Analysis Batch: 311721

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	189	182		mg/L		96	82 - 106

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-311721/60
Matrix: Water
Analysis Batch: 311721

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	189	182		mg/L		96	82 - 106

Lab Sample ID: LCSD 410-311721/31
Matrix: Water
Analysis Batch: 311721

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	189	180		mg/L		95	82 - 106	1	10

Lab Sample ID: LCSD 410-311721/61
Matrix: Water
Analysis Batch: 311721

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	189	182		mg/L		96	82 - 106	0	10

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-310941/21
Matrix: Water
Analysis Batch: 310941

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			10/26/22 11:48	1

Lab Sample ID: LCS 410-310941/22
Matrix: Water
Analysis Batch: 310941

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Hardness	40.0	39.1		mg/L		98	91 - 108

Lab Sample ID: 410-103227-1 DU
Matrix: Groundwater
Analysis Batch: 310941

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Hardness	600		653	F3	mg/L		9	7

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-311720/42
Matrix: Water
Analysis Batch: 311720

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			10/27/22 23:22	1

Method: 2510B-2011 - Conductivity, Specific Conductance (Continued)

Lab Sample ID: MB 410-311720/5
Matrix: Water
Analysis Batch: 311720

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			10/27/22 20:12	1

Lab Sample ID: LCS 410-311720/43
Matrix: Water
Analysis Batch: 311720

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1400		umhos/cm		99	97 - 103

Lab Sample ID: LCS 410-311720/6
Matrix: Water
Analysis Batch: 311720

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1400		umhos/cm		99	97 - 103

Lab Sample ID: LCSD 410-311720/44
Matrix: Water
Analysis Batch: 311720

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance	1410	1400		umhos/cm		99	97 - 103	0	5

Lab Sample ID: LCSD 410-311720/7
Matrix: Water
Analysis Batch: 311720

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance	1410	1400		umhos/cm		99	97 - 103	0	5

Method: 2540C - 2015 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-310518/1
Matrix: Water
Analysis Batch: 310518

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			10/26/22 06:53	1

Lab Sample ID: LCS 410-310518/2
Matrix: Water
Analysis Batch: 310518

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	198		mg/L		99	72 - 127

Method: 2540C - 2015 - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 410-310970/1
Matrix: Water
Analysis Batch: 310970

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			10/27/22 06:55	1

Lab Sample ID: LCS 410-310970/2
Matrix: Water
Analysis Batch: 310970

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	194		mg/L		97	72 - 127

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-310821/1
Matrix: Water
Analysis Batch: 310821

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.0	1.0	mg/L			10/26/22 15:33	1

Lab Sample ID: LCS 410-310821/2
Matrix: Water
Analysis Batch: 310821

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	143		mg/L		95	89 - 105

Method: 2540F-2015 - Solids, Settleable

Lab Sample ID: MB 410-310765/1
Matrix: Water
Analysis Batch: 310765

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			10/26/22 13:48	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-313662/2-A
Matrix: Water
Analysis Batch: 314080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		11/03/22 11:50	11/04/22 10:55	1

Lab Sample ID: LCS 410-313662/1-A
Matrix: Water
Analysis Batch: 314080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	3.96	3.71		mg/L		94	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-310619/2-A
Matrix: Water
Analysis Batch: 311003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		10/26/22 09:35	10/27/22 06:24	1

Lab Sample ID: LCS 410-310619/1-A
Matrix: Water
Analysis Batch: 311003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as PO4	4.07	4.30		mg/L		106	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 410-310546/4
Matrix: Water
Analysis Batch: 310546

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			10/26/22 06:38	1

Lab Sample ID: LCS 410-310546/5
Matrix: Water
Analysis Batch: 310546

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	500	511		mg/L		102	94 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-312680/105
Matrix: Water
Analysis Batch: 312680

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/01/22 11:22	1

Lab Sample ID: MB 410-312680/33
Matrix: Water
Analysis Batch: 312680

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/01/22 07:46	1

Lab Sample ID: MB 410-312680/72
Matrix: Water
Analysis Batch: 312680

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/01/22 09:43	1

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 410-312680/103
Matrix: Water
Analysis Batch: 312680

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.241		mg/L		97	90 - 110

Lab Sample ID: LCS 410-312680/70
Matrix: Water
Analysis Batch: 312680

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.245		mg/L		98	90 - 110

Lab Sample ID: LCSD 410-312680/104
Matrix: Water
Analysis Batch: 312680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.250	0.243		mg/L		97	90 - 110	1	6

Lab Sample ID: LCSD 410-312680/71
Matrix: Water
Analysis Batch: 312680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.250	0.243		mg/L		97	90 - 110	1	6

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-311722/28
Matrix: Water
Analysis Batch: 311722

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		100	95 - 105

Lab Sample ID: LCS 410-311722/56
Matrix: Water
Analysis Batch: 311722

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		100	95 - 105

Lab Sample ID: LCSD 410-311722/29
Matrix: Water
Analysis Batch: 311722

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH	7.00	7.0		S.U.		100	95 - 105	0	3

Method: 4500 H+ B-2011 - pH (Continued)

Lab Sample ID: LCSD 410-311722/59
Matrix: Water
Analysis Batch: 311722

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH			7.00	7.0		S.U.		100	95 - 105	0	3

Lab Sample ID: LCS 410-311724/8
Matrix: Water
Analysis Batch: 311724

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		S.U.		100	95 - 105		

Lab Sample ID: LCSD 410-311724/9
Matrix: Water
Analysis Batch: 311724

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH			7.00	7.0		S.U.		100	95 - 105	0	3

Method: 5210 B-2011 - BOD, 5-Day

Lab Sample ID: SCB 410-312395/5
Matrix: Water
Analysis Batch: 312395

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.943		0.0000010	0.0000010	mg/L			10/26/22 14:24	1

Lab Sample ID: USB 410-312395/2
Matrix: Water
Analysis Batch: 312395

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.137		0.0000010	0.0000010	mg/L			10/26/22 14:24	1

Lab Sample ID: LCS 410-312395/27
Matrix: Water
Analysis Batch: 312395

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	191		mg/L		97	85 - 115		

Lab Sample ID: LCS 410-312395/4
Matrix: Water
Analysis Batch: 312395

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	179		mg/L		90	85 - 115		

GC/MS VOA

Analysis Batch: 310759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	624.1	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	624.1	
410-103227-3	QAQC_TB	Total/NA	Water	624.1	
MB 410-310759/5	Method Blank	Total/NA	Water	624.1	
LCS 410-310759/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-310759/1004	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 312990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-3	QAQC_TB	Total/NA	Water	8260D	
MB 410-312990/6	Method Blank	Total/NA	Water	8260D	
LCS 410-312990/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 313828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	8260D	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	8260D	
MB 410-313828/6	Method Blank	Total/NA	Water	8260D	
LCS 410-313828/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 312336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	625.1	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	625.1	
MB 410-312336/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-312336/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCS 410-312336/4-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-312336/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
LCSD 410-312336/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Prep Batch: 312339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	625.1	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	625.1	
MB 410-312339/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-312339/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-312339/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 312567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	625.1	312336
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	625.1	312336
MB 410-312336/1-A	Method Blank	Total/NA	Water	625.1	312336
MB 410-312339/1-A	Method Blank	Total/NA	Water	625.1	312339
LCS 410-312336/2-A	Lab Control Sample	Total/NA	Water	625.1	312336
LCS 410-312336/4-A	Lab Control Sample	Total/NA	Water	625.1	312336
LCS 410-312339/2-A	Lab Control Sample	Total/NA	Water	625.1	312339
LCSD 410-312336/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	312336
LCSD 410-312336/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	312336

GC/MS Semi VOA (Continued)

Analysis Batch: 312567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-312339/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	312339

Analysis Batch: 313064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	625.1	312339
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	625.1	312339

GC VOA

Prep Batch: 310570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	RSK-175	
MB 410-310570/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-310570/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-310570/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 310575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	310570
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	RSK-175	310570
MB 410-310570/1-A	Method Blank	Total/NA	Water	RSK-175	310570
LCS 410-310570/2-A	Lab Control Sample	Total/NA	Water	RSK-175	310570
LCSD 410-310570/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	310570

Prep Batch: 311579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1 - DL	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	
MB 410-311579/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-311579/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-311579/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 311589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1 - DL	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	311579
MB 410-311579/1-A	Method Blank	Total/NA	Water	RSK-175	311579
LCS 410-311579/2-A	Lab Control Sample	Total/NA	Water	RSK-175	311579
LCSD 410-311579/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	311579

Analysis Batch: 313094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	8015C	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	8015C	
MB 410-313094/4	Method Blank	Total/NA	Water	8015C	
LCS 410-313094/5	Lab Control Sample	Total/NA	Water	8015C	
LCSD 410-313094/6	Lab Control Sample Dup	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 312852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	3510C	

GC Semi VOA (Continued)

Prep Batch: 312852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	3510C	
MB 410-312852/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-312852/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-312852/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 313227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	8015C	312852
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	8015C	312852
MB 410-312852/1-A	Method Blank	Total/NA	Water	8015C	312852
LCS 410-312852/2-A	Lab Control Sample	Total/NA	Water	8015C	312852
LCSD 410-312852/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	312852

HPLC/IC

Analysis Batch: 314871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-314871/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-314871/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-314871/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 315903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 410-315903/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-315903/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-315903/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 316302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 410-316302/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-316302/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-316302/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 311934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	245.1	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	245.1	
MB 410-311934/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-311934/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 312167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	
410-103227-2	RECEIVING_WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	
MB 410-312167/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-312167/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Metals

Analysis Batch: 312352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	245.1	311934
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	245.1	311934
MB 410-311934/1-A	Method Blank	Total/NA	Water	245.1	311934
LCS 410-311934/2-A	Lab Control Sample	Total/NA	Water	245.1	311934

Analysis Batch: 312922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	312167
410-103227-2	RECEIVING_WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	312167
MB 410-312167/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	312167
LCS 410-312167/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	312167

Analysis Batch: 313378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	312167
410-103227-2	RECEIVING_WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	312167
410-103227-2	RECEIVING_WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	312167

General Chemistry

Analysis Batch: 302095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	SM 2330B	

Analysis Batch: 310518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	2540C - 2015	
MB 410-310518/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-310518/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 310546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	410.4	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	410.4	
MB 410-310546/4	Method Blank	Total/NA	Water	410.4	
LCS 410-310546/5	Lab Control Sample	Total/NA	Water	410.4	

Prep Batch: 310619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	365.1	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	365.1	
MB 410-310619/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-310619/1-A	Lab Control Sample	Total/NA	Water	365.1	

Analysis Batch: 310765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	2540F-2015	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	2540F-2015	
MB 410-310765/1	Method Blank	Total/NA	Water	2540F-2015	

General Chemistry

Analysis Batch: 310821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	2540D-2015	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	2540D-2015	
MB 410-310821/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-310821/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 310910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	180.1	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	180.1	
MB 410-310910/3	Method Blank	Total/NA	Water	180.1	
LCS 410-310910/4	Lab Control Sample	Total/NA	Water	180.1	

Analysis Batch: 310941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	2340C-2011	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	2340C-2011	
MB 410-310941/21	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-310941/22	Lab Control Sample	Total/NA	Water	2340C-2011	
410-103227-1 DU	ORS-INFLUENT	Total/NA	Groundwater	2340C-2011	

Analysis Batch: 310967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	353.2	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	353.2	

Analysis Batch: 310970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	2540C - 2015	
MB 410-310970/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-310970/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 311003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	365.1	310619
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	365.1	310619
MB 410-310619/2-A	Method Blank	Total/NA	Water	365.1	310619
LCS 410-310619/1-A	Lab Control Sample	Total/NA	Water	365.1	310619

Analysis Batch: 311469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	1664A	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	1664A	
MB 410-311469/1	Method Blank	Total/NA	Water	1664A	
LCS 410-311469/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-311469/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 311719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	2320B-2011	
MB 410-311719/5	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-311719/10	Lab Control Sample	Total/NA	Water	2320B-2011	

General Chemistry (Continued)

Analysis Batch: 311719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-311719/11	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 311720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	2510B-2011	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	2510B-2011	
MB 410-311720/42	Method Blank	Total/NA	Water	2510B-2011	
MB 410-311720/5	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-311720/43	Lab Control Sample	Total/NA	Water	2510B-2011	
LCS 410-311720/6	Lab Control Sample	Total/NA	Water	2510B-2011	
LCSD 410-311720/44	Lab Control Sample Dup	Total/NA	Water	2510B-2011	
LCSD 410-311720/7	Lab Control Sample Dup	Total/NA	Water	2510B-2011	

Analysis Batch: 311721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	2320B-2011	
MB 410-311721/27	Method Blank	Total/NA	Water	2320B-2011	
MB 410-311721/55	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-311721/30	Lab Control Sample	Total/NA	Water	2320B-2011	
LCS 410-311721/60	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-311721/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
LCSD 410-311721/61	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 311722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	4500 H+ B-2011	
LCS 410-311722/28	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	
LCS 410-311722/56	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	
LCSD 410-311722/29	Lab Control Sample Dup	Total/NA	Water	4500 H+ B-2011	
LCSD 410-311722/59	Lab Control Sample Dup	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 311724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	4500 H+ B-2011	
LCS 410-311724/8	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	
LCSD 410-311724/9	Lab Control Sample Dup	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 312395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	5210 B-2011	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	5210 B-2011	
SCB 410-312395/5	Method Blank	Total/NA	Water	5210 B-2011	
USB 410-312395/2	Method Blank	Total/NA	Water	5210 B-2011	
LCS 410-312395/27	Lab Control Sample	Total/NA	Water	5210 B-2011	
LCS 410-312395/4	Lab Control Sample	Total/NA	Water	5210 B-2011	

Analysis Batch: 312680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	420.4	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	420.4	
MB 410-312680/105	Method Blank	Total/NA	Water	420.4	

General Chemistry (Continued)

Analysis Batch: 312680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-312680/33	Method Blank	Total/NA	Water	420.4	
MB 410-312680/72	Method Blank	Total/NA	Water	420.4	
LCS 410-312680/103	Lab Control Sample	Total/NA	Water	420.4	
LCS 410-312680/70	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-312680/104	Lab Control Sample Dup	Total/NA	Water	420.4	
LCSD 410-312680/71	Lab Control Sample Dup	Total/NA	Water	420.4	

Prep Batch: 313662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	351.2	
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	351.2	
MB 410-313662/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-313662/1-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 314080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103227-1	ORS-INFLUENT	Total/NA	Groundwater	351.2	313662
410-103227-2	RECEIVING_WATER-002	Total/NA	Surface Water	351.2	313662
MB 410-313662/2-A	Method Blank	Total/NA	Water	351.2	313662
LCS 410-313662/1-A	Lab Control Sample	Total/NA	Water	351.2	313662

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-103227-1

Client Sample ID: ORS-INFLUENT

Date Collected: 10/25/22 09:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-1

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	310759	UJML	ELLE	10/26/22 16:48
Total/NA	Analysis	8260D		1	313828	USEJ	ELLE	11/04/22 12:12
Total/NA	Prep	625.1			312336	QJZ6	ELLE	10/31/22 15:44
Total/NA	Analysis	625.1		1	312567	W6XI	ELLE	11/02/22 05:53
Total/NA	Prep	625.1			312339	QJZ6	ELLE	10/31/22 15:47
Total/NA	Analysis	625.1		1	313064	SJ89	ELLE	11/02/22 19:01
Total/NA	Analysis	8015C		1	313094	NND8	ELLE	11/02/22 19:28
Total/NA	Prep	RSK-175			310570	SE2A	ELLE	10/26/22 08:12
Total/NA	Analysis	RSK-175		1	310575	SE2A	ELLE	10/26/22 17:20
Total/NA	Prep	RSK-175	DL		311579	SE2A	ELLE	10/28/22 07:45
Total/NA	Analysis	RSK-175	DL	10	311589	SE2A	ELLE	10/28/22 09:33
Total/NA	Prep	3510C			312852	K2IL	ELLE	11/01/22 20:07
Total/NA	Analysis	8015C		1	313227	KP5X	ELLE	11/02/22 21:19
Total/NA	Analysis	EPA 300.0 R2.1		200	315903	L4QM	ELLE	11/09/22 20:11
Total/NA	Analysis	EPA 300.0 R2.1		20	314871	L4QM	ELLE	11/07/22 21:01
Total Recoverable	Prep	200.8 Rev 5.4			312167	UAMX	ELLE	10/31/22 08:47
Total Recoverable	Analysis	200.8 Rev 5.4		1	312922	F7JF	ELLE	11/02/22 02:41
Total Recoverable	Prep	200.8 Rev 5.4			312167	UAMX	ELLE	10/31/22 08:47
Total Recoverable	Analysis	200.8 Rev 5.4		10	313378	F7JF	ELLE	11/03/22 02:08
Total/NA	Prep	245.1			311934	UAMX	ELLE	10/29/22 09:35
Total/NA	Analysis	245.1		1	312352	UEFS	ELLE	10/31/22 12:50
Total/NA	Analysis	1664A		1	311469	QT6L	ELLE	10/27/22 21:14
Total/NA	Analysis	180.1		4	310910	DI9Q	ELLE	10/26/22 20:50
Total/NA	Analysis	2320B-2011		1	311719	DI9Q	ELLE	10/27/22 22:40
Total/NA	Analysis	2340C-2011		10	310941	USAE	ELLE	10/26/22 13:02
Total/NA	Analysis	2510B-2011		1	311720	DI9Q	ELLE	10/27/22 22:40
Total/NA	Analysis	2540C - 2015		1	310518	M98K	ELLE	10/26/22 06:53
Total/NA	Analysis	2540D-2015		1	310821	UOCA	ELLE	10/26/22 15:33
Total/NA	Analysis	2540F-2015		1	310765	DI9Q	ELLE	10/26/22 13:48
Total/NA	Prep	351.2			313662	UJE2	ELLE	11/03/22 11:50 - 11/03/22 14:50 [1]
Total/NA	Analysis	351.2		1	314080	JCG7	ELLE	11/04/22 13:06
Total/NA	Analysis	353.2		1	310967	UKJF	ELLE	10/27/22 06:52
Total/NA	Prep	365.1			310619	CBM8	ELLE	10/26/22 09:35
Total/NA	Analysis	365.1		1	311003	CBM8	ELLE	10/27/22 06:29
Total/NA	Analysis	410.4		1	310546	USAE	ELLE	10/26/22 06:38
Total/NA	Analysis	420.4		1	312680	CBM8	ELLE	11/01/22 10:07
Total/NA	Analysis	4500 H+ B-2011		1	311724	DI9Q	ELLE	10/27/22 22:40
Total/NA	Analysis	5210 B-2011		1	312395	F8TI	ELLE	10/26/22 19:14
Total/NA	Analysis	SM 2330B		1	302095	USJM	ELLE	10/26/22 05:01

Client Sample ID: RECEIVING_WATER-002
Date Collected: 10/25/22 11:30
Date Received: 10/25/22 20:00

Lab Sample ID: 410-103227-2
Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	310759	UJML	ELLE	10/26/22 16:27
Total/NA	Analysis	8260D		1	313828	USEJ	ELLE	11/04/22 12:32
Total/NA	Prep	625.1			312336	QJZ6	ELLE	10/31/22 15:44
Total/NA	Analysis	625.1		1	312567	W6XI	ELLE	11/02/22 06:15
Total/NA	Prep	625.1			312339	QJZ6	ELLE	10/31/22 15:47
Total/NA	Analysis	625.1		1	313064	SJ89	ELLE	11/02/22 19:22
Total/NA	Analysis	8015C		1	313094	NND8	ELLE	11/02/22 19:53
Total/NA	Prep	RSK-175			310570	SE2A	ELLE	10/26/22 08:12
Total/NA	Analysis	RSK-175		1	310575	SE2A	ELLE	10/26/22 17:37
Total/NA	Prep	3510C			312852	K2IL	ELLE	11/01/22 20:07
Total/NA	Analysis	8015C		1	313227	KP5X	ELLE	11/02/22 21:41
Total/NA	Analysis	EPA 300.0 R2.1		500	315903	L4QM	ELLE	11/09/22 19:02
Total/NA	Analysis	EPA 300.0 R2.1		2500	316302	L4QM	ELLE	11/10/22 16:32
Total Recoverable	Prep	200.8 Rev 5.4			312167	UAMX	ELLE	10/31/22 08:47
Total Recoverable	Analysis	200.8 Rev 5.4		1	312922	F7JF	ELLE	11/02/22 02:45
Total Recoverable	Prep	200.8 Rev 5.4			312167	UAMX	ELLE	10/31/22 08:47
Total Recoverable	Analysis	200.8 Rev 5.4		10	313378	F7JF	ELLE	11/03/22 02:13
Total Recoverable	Prep	200.8 Rev 5.4			312167	UAMX	ELLE	10/31/22 08:47
Total Recoverable	Analysis	200.8 Rev 5.4		100	313378	F7JF	ELLE	11/03/22 02:15
Total/NA	Prep	245.1			311934	UAMX	ELLE	10/29/22 09:35
Total/NA	Analysis	245.1		1	312352	UEFS	ELLE	10/31/22 12:54
Total/NA	Analysis	1664A		1	311469	QT6L	ELLE	10/27/22 21:14
Total/NA	Analysis	180.1		1	310910	DI9Q	ELLE	10/26/22 20:50
Total/NA	Analysis	2320B-2011		1	311721	DI9Q	ELLE	10/28/22 02:42
Total/NA	Analysis	2340C-2011		50	310941	USAE	ELLE	10/26/22 14:49
Total/NA	Analysis	2510B-2011		10	311720	DI9Q	ELLE	10/28/22 00:21
Total/NA	Analysis	2540C - 2015		1	310970	M98K	ELLE	10/27/22 06:55
Total/NA	Analysis	2540D-2015		1	310821	UOCA	ELLE	10/26/22 15:33
Total/NA	Analysis	2540F-2015		1	310765	DI9Q	ELLE	10/26/22 13:48
Total/NA	Prep	351.2			313662	UJE2	ELLE	11/03/22 11:50 - 11/03/22 14:50 [1]
Total/NA	Analysis	351.2		1	314080	JCG7	ELLE	11/04/22 13:08
Total/NA	Analysis	353.2		1	310967	UKJF	ELLE	10/27/22 06:52
Total/NA	Prep	365.1			310619	CBM8	ELLE	10/26/22 09:35
Total/NA	Analysis	365.1		1	311003	CBM8	ELLE	10/27/22 06:29
Total/NA	Analysis	410.4		10	310546	USAE	ELLE	10/26/22 06:38
Total/NA	Analysis	420.4		5	312680	CBM8	ELLE	11/01/22 12:02
Total/NA	Analysis	4500 H+ B-2011		1	311722	DI9Q	ELLE	10/28/22 02:42
Total/NA	Analysis	5210 B-2011		1	312395	F8TI	ELLE	10/26/22 19:14

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

Client Sample ID: QAQC_TB
Lab Sample ID: 410-103227-3

Date Collected: 10/19/22 00:00
Matrix: Water

Date Received: 10/25/22 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	310759	UJML	ELLE	10/26/22 15:44
Total/NA	Analysis	8260D		1	312990	USEJ	ELLE	11/02/22 13:16

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

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
200.8 Rev 5.4	200.8 Rev 5.4	Groundwater	Silver
200.8 Rev 5.4	200.8 Rev 5.4	Surface Water	Silver
365.1	365.1	Groundwater	Total Phosphorus as PO4
365.1	365.1	Surface Water	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
4500 H+ B-2011		Surface Water	pH
4500 H+ B-2011		Surface Water	Temperature
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile
624.1		Groundwater	Methyl iodide
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane
624.1		Groundwater	n-Propyl acetate
624.1		Groundwater	N-Propylbenzene
624.1		Groundwater	p-Isopropyltoluene
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Surface Water	1,1,1,2-Tetrachloroethane
624.1		Surface Water	1,1-Dichloropropene
624.1		Surface Water	1,2,3-Trichlorobenzene
624.1		Surface Water	1,2,3-Trichloropropane
624.1		Surface Water	1,2,4-Trichlorobenzene
624.1		Surface Water	1,2,4-Trimethylbenzene
624.1		Surface Water	1,2-Dibromo-3-Chloropropane
624.1		Surface Water	1,2-Dibromoethane
624.1		Surface Water	1,2-Dichloroethene (total)
624.1		Surface Water	1,3,5-Trimethylbenzene
624.1		Surface Water	1,3-Dichloropropane
624.1		Surface Water	1,4-Dioxane
624.1		Surface Water	2,2-Dichloropropane
624.1		Surface Water	2-Chloro-1,3-butadiene
624.1		Surface Water	2-Chlorotoluene
624.1		Surface Water	2-Hexanone
624.1		Surface Water	2-Propanol
624.1		Surface Water	4-Chlorotoluene
624.1		Surface Water	Benzyl chloride
624.1		Surface Water	Bromobenzene
624.1		Surface Water	Butyl acetate
624.1		Surface Water	Carbon disulfide
624.1		Surface Water	Cyclohexane
624.1		Surface Water	Dibromomethane
624.1		Surface Water	Dichlorofluoromethane
624.1		Surface Water	di-Isopropyl ether
624.1		Surface Water	Ethyl methacrylate
624.1		Surface Water	Ethyl t-butyl ether
624.1		Surface Water	Freon 123a
624.1		Surface Water	Hexachlorobutadiene
624.1		Surface Water	Isobutyl alcohol
624.1		Surface Water	Isopropyl acetate
624.1		Surface Water	Isopropylbenzene
624.1		Surface Water	Methacrylonitrile
624.1		Surface Water	Methyl iodide
624.1		Surface Water	Methyl methacrylate
624.1		Surface Water	n-Butylbenzene

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Surface Water	n-Heptane
624.1		Surface Water	n-Hexane
624.1		Surface Water	n-Propyl acetate
624.1		Surface Water	N-Propylbenzene
624.1		Surface Water	p-Isopropyltoluene
624.1		Surface Water	Propionitrile
624.1		Surface Water	sec-Butylbenzene
624.1		Surface Water	t-Amyl methyl ether
624.1		Surface Water	tert-Butylbenzene
624.1		Surface Water	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
625.1	625.1	Surface Water	1,1'-Biphenyl
625.1	625.1	Surface Water	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Surface Water	1,2-Dichlorobenzene
625.1	625.1	Surface Water	1,3-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dioxane
625.1	625.1	Surface Water	1-Methylnaphthalene
625.1	625.1	Surface Water	1-Methylphenanthrene
625.1	625.1	Surface Water	2,3,4,6-Tetrachlorophenol
625.1	625.1	Surface Water	2,6-Dichlorophenol

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
625.1	625.1	Surface Water	2-Nitroaniline
625.1	625.1	Surface Water	3-Nitroaniline
625.1	625.1	Surface Water	4-Chloroaniline
625.1	625.1	Surface Water	4-Nitroaniline
625.1	625.1	Surface Water	Benzoic acid
625.1	625.1	Surface Water	Benzyl alcohol
625.1	625.1	Surface Water	Dibenzofuran
625.1	625.1	Surface Water	Diphenyl ether
625.1	625.1	Surface Water	n-Docosane
625.1	625.1	Surface Water	n-Eicosane
625.1	625.1	Surface Water	n-Hexadecane
625.1	625.1	Surface Water	N-Nitrosodiethylamine
625.1	625.1	Surface Water	N-Nitrosodi-n-butylamine
625.1	625.1	Surface Water	N-Nitrosopyrrolidine
625.1	625.1	Surface Water	n-Tetradecane
625.1	625.1	Surface Water	o-Toluidine
625.1	625.1	Surface Water	Pentachlorobenzene
8015C	3510C	Groundwater	>C28-C35 (1C)
8015C	3510C	Surface Water	>C28-C35 (1C)
SM 2330B		Groundwater	Langelier Index

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	MCAWW	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C - 2015	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
2540F-2015	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	MCAWW	ELLE
420.4	Phenolics, Total Recoverable	MCAWW	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2011	BOD, 5-Day	SM	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater ", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-103227-1
Project/Site: EMGPRP-31097

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-103227-1	ORS-INFLUENT	Groundwater	10/25/22 09:30	10/25/22 20:00
410-103227-2	RECEIVING_WATER-002	Surface Water	10/25/22 11:30	10/25/22 20:00
410-103227-3	QAQC_TB	Water	10/19/22 00:00	10/25/22 20:00

Request/Chain of Custody

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Acct # 13438

410-103227 Chain of Custody

1 of 1

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.		
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097
Consultant PM:	Courtney Lind	P.O. #:	0172 0030Y080 WAL# 4847
Sampler:	DK	XOM PM:	Michael J Burghardt
Bill to:	☐ XOM ☑ Consultant		
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water: Potable	Ground	NPDES	Surface	Other: Trip Blank	Total # of Containers	VOCs (624.1) MEK, Acetone, MTBE (H)	200.8, 245.1 (N)	625.1_PREC - (MOD) Priority Pollutants SVOCs	300_ORGFM_28D - (MOD) Chloride/Sulfate	SM5210B_Calc - BOD, 5-Day Only (S)	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved (S)	351.2, 365.1, 410.4	2320B, 2510B, 2540C_SingleDry. (S)	420.4 - Phenols	353.2_Nitrite - Nitrogen, Nitrite	2540D_Single_Dry - TSS	SM2540F - Settleable Solids	Turbidity (180.1)	SM2330B - Local Method	2340C - Local Method (N)	Oil&Grease (1664A) (H)	RSK_175 Methane Ethane Ethene (H)	8015C TPH-DRO/ORO Standard TPH-DRO/ORO (H)	TPH-GRO (8015) #10598 (H)	Remarks
ORS-INFLUENT	10/25/2022	9:30	x					x					32	6	1	2	1	1	1	2	2	1	1	1	1	1	1	2	2	2	3	
RECEIVING_WATER-002	10/25/2022	11:30	x							x			32	6	1	2	1	1	1	2	2	1	1	1	1	1	1	2	2	2	3	
QAQC_TB	10/19/2022	--										x	8	8																		

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

For Lab Use Only: SF #: ; SCR #:

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): 5 day 4day 72hour 48hour 24hour

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ OTHER

Type III (Reduced non-CLP/NJ Reduced) ☐ Standard with QC summary

TX TRRP-13 ☐

NJ DKQP ☐

NYSDEC Category ☐ A ☐ B

EDD Format(s) Needed: EQuIS and Excel

Relinquished by	Date	Time	Received by	Date	Time
[illegible]	10/25/2022	15:30	Stan King	10/25/22	15:30
Stan King	10/25/22	20:00			
				10/25/22	20:00

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt: -0.2 - 5.5 / 0.2 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

Cmc 9 ③ 10/25/22

Not Frozen

SR

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-103227-1

Login Number: 103227

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Roth, Stephanie

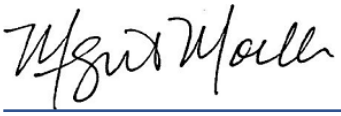
Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/17/2022 12:08:48 PM

Authorized for release by
Megan Moeller, Client Services Manager
Megan.Moeller@et.eurofinsus.com
(717)556-7261

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

· 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 is performed, unless otherwise specified in the method.

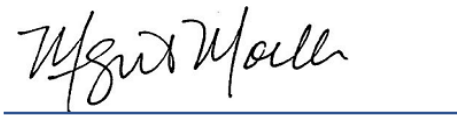
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

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

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



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ANALYTICAL REPORT

PREPARED FOR

Attn: Matthew Mueller
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia New York 11749

Generated 11/18/2022 9:43:29 AM

JOB DESCRIPTION

EMGPRP-31097

JOB NUMBER

410-104888-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

myEOL

Table of Contents

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104888-1
Project/Site: EMGPRP-31097

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC 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.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-104888-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-104888-1

Receipt
The samples were received on 11/8/2022 8:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.4°C and 8.2°C

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: Outfall-01A (410-104888-1), Outfall-001 (410-104888-2) and QAQC_TB (410-104888-3). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

The container count for the following samples did not match what was listed on the Chain-of-Custody (COC): QAQC_TB (410-104888-3). The laboratory received 8 total containers, while the COC lists 4 total containers.

GC/MS VOA
Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: Outfall-01A (410-104888-1) and Outfall-001 (410-104888-2). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile , which are acid-labile compounds that degrade in an acidic medium.

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

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

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

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

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

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

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: Outfall-01A — Lab Sample ID: 410-104888-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene (total)	1.0		1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	1.0		1.0	0.20	ug/L	1		624.1	Total/NA
Tetrachloroethene	0.97	J	1.0	0.30	ug/L	1		624.1	Total/NA
Trichloroethene	0.21	J	1.0	0.20	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	1.2		1.0	0.20	ug/L	1		8260D	Total/NA
Diethylphthalate	0.56	J	5.1	0.51	ug/L	1		625.1	Total/NA
Sulfate	170		75	25	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	1000		750	300	mg/L	500		EPA 300.0 R2.1	Total/NA
Aluminum	12	J	30	12	ug/L	1		200.8 Rev 5.4	Total Recoverable
Arsenic	1.7	J	2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	290		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	140000		1200	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
Cobalt	1.4		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	0.47	J	1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	950		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	84000	B ^2	50	16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2500	^2	2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	1.5		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	17000		200	65	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	470000	B	2000	900	ug/L	10		200.8 Rev 5.4	Total Recoverable
Zinc	6.1	J	10	4.0	ug/L	1		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	1.6	J	5.4	1.5	mg/L	1		1664A	Total/NA
Turbidity	7.2		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	360		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	950	F1	100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	3900		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	1800		240	96	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	2.3	J	3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	1.6		1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.68		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.51		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	49	J	75	25	mg/L	1		410.4	Total/NA
Phenols, Total	0.011	J	0.020	0.010	mg/L	1		420.4	Total/NA
pH	8.0	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	22.4	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Langelier Index	3.1				LangSU	1		SM 2330B	Total/NA

Client Sample ID: Outfall-001 — Lab Sample ID: 410-104888-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene (total)	1.1		1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.20	ug/L	1		624.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Outfall-001 (Continued)

Lab Sample ID: 410-104888-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.88	J	1.0	0.30	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	1.1		1.0	0.20	ug/L	1		8260D	Total/NA
Acetone	1.4	J	20	0.70	ug/L	1		8260D	Total/NA
Methane (1C)	4.2	J	5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	170		75	25	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	1000		750	300	mg/L	500		EPA 300.0 R2.1	Total/NA
Arsenic	1.6	J	2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	300		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	160000		1200	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
Cobalt	1.3		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	0.36	J	1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	920		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	87000	B ^2	50	16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2500	^2	2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	1.4		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	18000		200	65	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	540000	B	2000	900	ug/L	10		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	1.8	J	5.6	1.6	mg/L	1		1664A	Total/NA
Turbidity	6.4		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	360		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	750		100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	3900		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	1700		240	96	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	1.4	J	3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	1.4		1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.74		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.57		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	44	J	75	25	mg/L	1		410.4	Total/NA
Phenols, Total	0.012	J	0.020	0.010	mg/L	1		420.4	Total/NA
pH	8.1	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	21.8	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Langelier Index	0.24				LangSU	1		SM 2330B	Total/NA

Client Sample ID: QAQC_TB

Lab Sample ID: 410-104888-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: Outfall-01A
Date Collected: 11/08/22 09:40
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/09/22 14:50	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/09/22 14:50	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/09/22 14:50	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/09/22 14:50	1
1,2-Dichloroethene (total)	**1.0**		1.0	0.20	ug/L			11/09/22 14:50	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
1,4-Dioxane	ND		100	82	ug/L			11/09/22 14:50	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/09/22 14:50	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/09/22 14:50	1
2-Chloroethyl vinyl ether	ND	F1 cn	1.0	0.50	ug/L			11/09/22 14:50	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/09/22 14:50	1
2-Hexanone	ND		2.0	0.50	ug/L			11/09/22 14:50	1
2-Propanol	ND	F2 F1	20	8.0	ug/L			11/09/22 14:50	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/09/22 14:50	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/09/22 14:50	1
Acetonitrile	ND		50	14	ug/L			11/09/22 14:50	1
Benzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/09/22 14:50	1
Bromobenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Bromoform	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Bromomethane	ND		1.0	0.44	ug/L			11/09/22 14:50	1
Butyl acetate	ND		5.0	0.60	ug/L			11/09/22 14:50	1
Carbon disulfide	ND		1.0	0.45	ug/L			11/09/22 14:50	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			11/09/22 14:50	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Chloroethane	ND		1.0	0.44	ug/L			11/09/22 14:50	1
Chloroform	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Chloromethane	ND		1.0	0.64	ug/L			11/09/22 14:50	1
cis-1,2-Dichloroethene	**1.0**		1.0	0.20	ug/L			11/09/22 14:50	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Cyclohexane	ND	F1	1.0	0.30	ug/L			11/09/22 14:50	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Dibromomethane	ND		1.0	0.20	ug/L			11/09/22 14:50	1

Client Sample ID: Outfall-01A
Date Collected: 11/08/22 09:40
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			11/09/22 14:50	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			11/09/22 14:50	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/09/22 14:50	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Freon 113	ND		1.0	0.30	ug/L			11/09/22 14:50	1
Freon 123a	ND		1.0	0.44	ug/L			11/09/22 14:50	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Isobutyl alcohol	ND		50	11	ug/L			11/09/22 14:50	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/09/22 14:50	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/09/22 14:50	1
m&p-Xylene	ND		1.0	0.30	ug/L			11/09/22 14:50	1
Methacrylonitrile	ND		10	2.0	ug/L			11/09/22 14:50	1
Methyl iodide	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/09/22 14:50	1
Naphthalene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
n-Heptane	ND		1.0	0.30	ug/L			11/09/22 14:50	1
n-Hexane	ND		1.0	0.46	ug/L			11/09/22 14:50	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/09/22 14:50	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
o-Xylene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Propionitrile	ND		20	8.5	ug/L			11/09/22 14:50	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Styrene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/09/22 14:50	1
t-Butyl alcohol	ND		20	6.0	ug/L			11/09/22 14:50	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Tetrachloroethene	**0.97**	**J**	1.0	0.30	ug/L			11/09/22 14:50	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/09/22 14:50	1
Toluene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/09/22 14:50	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/09/22 14:50	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/09/22 14:50	1
Trichloroethene	**0.21**	**J**	1.0	0.20	ug/L			11/09/22 14:50	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/09/22 14:50	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/09/22 14:50	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/09/22 14:50	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/09/22 14:50	1
Acrolein	ND	cn	10	3.0	ug/L			11/09/22 14:50	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			11/09/22 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 140*		*11/09/22 14:50*	*1*
4-Bromofluorobenzene (Surr)	*120*		*60 - 140*		*11/09/22 14:50*	*1*
Dibromofluoromethane (Surr)	*82*		*60 - 140*		*11/09/22 14:50*	*1*

Client Sample ID: Outfall-01A
Date Collected: 11/08/22 09:40
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*60 - 140*		*11/09/22 14:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**1.2**		1.0	0.20	ug/L			11/15/22 12:25	1
Acetone	ND		20	0.70	ug/L			11/15/22 12:25	1
2-Butanone	ND		10	0.50	ug/L			11/15/22 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/15/22 12:25*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*11/15/22 12:25*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*11/15/22 12:25*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/15/22 12:25*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
1,2,4,5-Tetrachlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
1,2-Dichlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
1,2-Diphenylhydrazine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
1,3-Dichlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
1,4-Dichlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
1,4-Dioxane	ND		5.1	2.0	ug/L		11/15/22 08:17	11/15/22 21:21	1
1-Methylnaphthalene	ND		5.1	0.35	ug/L		11/15/22 08:17	11/15/22 21:21	1
1-Methylphenanthrene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2,2'-oxybis[1-chloropropane]	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2,3,4,6-Tetrachlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2,3-Dichloroaniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2,4,5-Trichlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2,4,6-Trichlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2,4-Dichlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2,4-Dimethylphenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		11/15/22 08:17	11/15/22 21:21	1
2,4-Dinitrotoluene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2,6-Dichlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2,6-Dinitrotoluene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2-Chloronaphthalene	ND		5.1	1.0	ug/L		11/15/22 08:17	11/15/22 21:21	1
2-Chlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2-Methylnaphthalene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:21	1
2-Methylphenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2-Nitroaniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
2-Nitrophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
3,3'-Dichlorobenzidine	ND		5.1	0.81	ug/L		11/15/22 08:17	11/15/22 21:21	1
3-Nitroaniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		11/15/22 08:17	11/15/22 21:21	1
4-Bromophenyl-phenylether	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
4-Chloro-3-methylphenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
4-Chloroaniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
4-Chlorophenyl-phenylether	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: Outfall-01A
Date Collected: 11/08/22 09:40
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-1
Matrix: Groundwater

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
4-Nitroaniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
4-Nitrophenol	ND		5.1	0.91	ug/L		11/15/22 08:17	11/15/22 21:21	1
Acenaphthene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:21	1
Acenaphthylene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:21	1
Acetophenone	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Aniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Anthracene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:21	1
a-Terpineol	ND		5.1	0.61	ug/L		11/15/22 08:17	11/15/22 21:21	1
Benzidine	ND		61	6.1	ug/L		11/15/22 08:17	11/15/22 21:21	1
Benzo[a]anthracene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:21	1
Benzo[a]pyrene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:21	1
Benzo[b]fluoranthene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:21	1
Benzo[g,h,i]perylene	ND		5.1	0.30	ug/L		11/15/22 08:17	11/15/22 21:21	1
Benzo[k]fluoranthene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:21	1
Benzoic acid	ND		30	4.0	ug/L		11/15/22 08:17	11/15/22 21:21	1
Benzyl alcohol	ND	*+	5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Bis(2-chloroethoxy)methane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Bis(2-chloroethyl)ether	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Bis(2-ethylhexyl) phthalate	ND		5.1	1.0	ug/L		11/15/22 08:17	11/15/22 21:21	1
Butylbenzylphthalate	ND		5.1	1.0	ug/L		11/15/22 08:17	11/15/22 21:21	1
Carbazole	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Chrysene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:21	1
Dibenz(a,h)anthracene	ND		5.1	0.30	ug/L		11/15/22 08:17	11/15/22 21:21	1
Dibenzofuran	ND	*+	5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Diethylphthalate	**0.56**	**J**	5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Dimethylphthalate	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Di-n-butyl phthalate	ND		5.1	1.0	ug/L		11/15/22 08:17	11/15/22 21:21	1
Di-n-octyl phthalate	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Diphenyl ether	ND		5.1	0.76	ug/L		11/15/22 08:17	11/15/22 21:21	1
Fluoranthene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:21	1
Fluorene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:21	1
Hexachlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Hexachlorobutadiene	ND		2.0	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		11/15/22 08:17	11/15/22 21:21	1
Hexachloroethane	ND		2.0	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Indeno[1,2,3-cd]pyrene	ND		5.1	0.30	ug/L		11/15/22 08:17	11/15/22 21:21	1
Isophorone	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Naphthalene	ND		2.0	0.30	ug/L		11/15/22 08:17	11/15/22 21:21	1
n-Decane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
n-Docosane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
n-Eicosane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
n-Hexadecane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Nitrobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
N-Nitrosodiethylamine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
N-Nitrosodimethylamine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
N-Nitrosodi-n-butylamine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
N-Nitrosodi-n-propylamine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
N-Nitrosodiphenylamine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: Outfall-01A
Date Collected: 11/08/22 09:40
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-1
Matrix: Groundwater

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
n-Octadecane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
n-Tetradecane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
o-Toluidine	ND		5.1	1.0	ug/L		11/15/22 08:17	11/15/22 21:21	1
Pentachlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Pentachlorophenol	ND		5.1	0.81	ug/L		11/15/22 08:17	11/15/22 21:21	1
Phenanthrene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:21	1
Phenol	ND		1.0	0.51	ug/L		11/15/22 08:17	11/15/22 21:21	1
Pyrene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:21	1
Pyridine	ND		5.1	0.81	ug/L		11/15/22 08:17	11/15/22 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*13*		*10 - 150*	*11/15/22 08:17*	*11/15/22 21:21*	*1*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*	*11/15/22 08:17*	*11/15/22 21:21*	*1*
2-Fluorophenol (Surr)	*30*		*10 - 83*	*11/15/22 08:17*	*11/15/22 21:21*	*1*
Nitrobenzene-d5 (Surr)	*80*		*41 - 111*	*11/15/22 08:17*	*11/15/22 21:21*	*1*
Phenol-d5 (Surr)	*26*		*10 - 59*	*11/15/22 08:17*	*11/15/22 21:21*	*1*
p-Terphenyl-d14 (Surr)	*97*		*37 - 140*	*11/15/22 08:17*	*11/15/22 21:21*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		11/09/22 11:15	11/09/22 19:14	1
Ethene (1C)	ND		5.0	1.0	ug/L		11/09/22 11:15	11/09/22 19:14	1
Methane (1C)	ND		5.0	3.0	ug/L		11/09/22 11:15	11/09/22 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*54*		*43 - 133*	*11/09/22 11:15*	*11/09/22 19:14*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**170**		75	25	mg/L			11/12/22 16:46	50
Chloride	**1000**		750	300	mg/L			11/14/22 14:59	500

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		11/10/22 06:10	11/15/22 11:01	1
Aluminum	**12**	**J**	30	12	ug/L		11/10/22 06:10	11/15/22 11:01	1
Arsenic	**1.7**	**J**	2.0	0.68	ug/L		11/10/22 06:10	11/15/22 11:01	1
Barium	**290**		2.0	0.75	ug/L		11/10/22 06:10	11/15/22 11:01	1
Beryllium	ND		0.50	0.12	ug/L		11/10/22 06:10	11/15/22 11:01	1
Cadmium	ND		0.50	0.15	ug/L		11/10/22 06:10	11/15/22 11:01	1
Calcium	**140000**		1200	500	ug/L		11/10/22 06:10	11/17/22 20:57	10
Chromium	ND		2.0	0.33	ug/L		11/10/22 06:10	11/15/22 11:01	1
Cobalt	**1.4**		0.50	0.16	ug/L		11/10/22 06:10	11/15/22 11:01	1
Copper	**0.47**	**J**	1.0	0.36	ug/L		11/10/22 06:10	11/15/22 11:01	1
Iron	**950**		50	20	ug/L		11/10/22 06:10	11/15/22 11:01	1
Lead	ND		0.50	0.071	ug/L		11/10/22 06:10	11/15/22 11:01	1
Magnesium	**84000**	**B ^2**	50	16	ug/L		11/10/22 06:10	11/15/22 11:01	1
Manganese	**2500**	**^2**	2.0	0.95	ug/L		11/10/22 06:10	11/15/22 11:01	1
Nickel	**1.5**		1.0	0.40	ug/L		11/10/22 06:10	11/15/22 11:01	1
Potassium	**17000**		200	65	ug/L		11/10/22 06:10	11/15/22 11:01	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: Outfall-01A
Date Collected: 11/08/22 09:40
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-1
Matrix: Groundwater

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		1.0	0.28	ug/L		11/10/22 06:10	11/15/22 11:01	1
Silver	ND		0.50	0.10	ug/L		11/10/22 06:10	11/15/22 11:01	1
Sodium	**470000**	**B**	2000	900	ug/L		11/10/22 06:10	11/17/22 20:57	10
Thallium	ND		0.50	0.13	ug/L		11/10/22 06:10	11/15/22 11:01	1
Vanadium	ND		4.0	0.79	ug/L		11/10/22 06:10	11/15/22 11:01	1
Zinc	**6.1**	**J**	10	4.0	ug/L		11/10/22 06:10	11/15/22 11:01	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/11/22 08:04	11/11/22 18:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	**1.6**	**J**	5.4	1.5	mg/L			11/09/22 20:57	1
Turbidity (MCAWW 180.1)	**7.2**		1.0	1.0	NTU			11/09/22 18:05	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**360**		8.0	2.6	mg/L			11/09/22 23:54	1
Total Hardness (SM 2340C-2011)	**950**	**F1**	100	30	mg/L			11/10/22 13:19	10
Specific Conductance (SM 2510B-2011)	**3900**		5.0	1.7	umhos/cm			11/09/22 23:54	1
Total Dissolved Solids (SM 2540C - 2015)	**1800**		240	96	mg/L			11/09/22 06:24	1
Total Suspended Solids (SM 2540D-2015)	**2.3**	**J**	3.0	1.0	mg/L			11/10/22 15:08	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			11/09/22 14:06	1
Total Kjeldahl Nitrogen (MCAWW 351.2)	**1.6**		1.0	0.50	mg/L		11/10/22 10:15	11/14/22 10:25	1
Nitrate as N (EPA 353.2)	**0.68**		0.10	0.040	mg/L			11/09/22 12:36	1
Total Phosphorus as PO4 (EPA 365.1)	**0.51**		0.31	0.25	mg/L		11/10/22 09:51	11/11/22 08:43	1
Chemical Oxygen Demand (MCAWW 410.4)	**49**	**J**	75	25	mg/L			11/10/22 06:20	1
Phenols, Total (MCAWW 420.4)	**0.011**	**J**	0.020	0.010	mg/L			11/10/22 09:38	1
pH (SM 4500 H+ B-2011)	**8.0**	**HF**	0.01	0.01	S.U.			11/09/22 23:54	1
Temperature (SM 4500 H+ B-2011)	**22.4**	**HF**	0.01	0.01	Degrees C			11/09/22 23:54	1
Biochemical Oxygen Demand (SM 5210 B-2011)	ND		2.0	2.0	mg/L			11/09/22 18:33	1
Langelier Index (SM 2330B)	**3.1**				LangSU			11/13/22 12:38	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: Outfall-001
Date Collected: 11/08/22 10:05
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-2
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/09/22 15:13	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/09/22 15:13	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/09/22 15:13	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/09/22 15:13	1
1,2-Dichloroethene (total)	**1.1**		1.0	0.20	ug/L			11/09/22 15:13	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
1,4-Dioxane	ND		100	82	ug/L			11/09/22 15:13	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/09/22 15:13	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/09/22 15:13	1
2-Chloroethyl vinyl ether	ND	cn	1.0	0.50	ug/L			11/09/22 15:13	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/09/22 15:13	1
2-Hexanone	ND		2.0	0.50	ug/L			11/09/22 15:13	1
2-Propanol	ND		20	8.0	ug/L			11/09/22 15:13	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/09/22 15:13	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/09/22 15:13	1
Acetonitrile	ND		50	14	ug/L			11/09/22 15:13	1
Benzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/09/22 15:13	1
Bromobenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Bromoform	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Bromomethane	ND		1.0	0.44	ug/L			11/09/22 15:13	1
Butyl acetate	ND		5.0	0.60	ug/L			11/09/22 15:13	1
Carbon disulfide	ND		1.0	0.45	ug/L			11/09/22 15:13	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			11/09/22 15:13	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Chloroethane	ND		1.0	0.44	ug/L			11/09/22 15:13	1
Chloroform	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Chloromethane	ND		1.0	0.64	ug/L			11/09/22 15:13	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.20	ug/L			11/09/22 15:13	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Cyclohexane	ND		1.0	0.30	ug/L			11/09/22 15:13	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Dibromomethane	ND		1.0	0.20	ug/L			11/09/22 15:13	1

Client Sample ID: Outfall-001
Date Collected: 11/08/22 10:05
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-2
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			11/09/22 15:13	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			11/09/22 15:13	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/09/22 15:13	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Freon 113	ND		1.0	0.30	ug/L			11/09/22 15:13	1
Freon 123a	ND		1.0	0.44	ug/L			11/09/22 15:13	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Isobutyl alcohol	ND		50	11	ug/L			11/09/22 15:13	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/09/22 15:13	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/09/22 15:13	1
m&p-Xylene	ND		1.0	0.30	ug/L			11/09/22 15:13	1
Methacrylonitrile	ND		10	2.0	ug/L			11/09/22 15:13	1
Methyl iodide	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/09/22 15:13	1
Naphthalene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
n-Heptane	ND		1.0	0.30	ug/L			11/09/22 15:13	1
n-Hexane	ND		1.0	0.46	ug/L			11/09/22 15:13	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/09/22 15:13	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
o-Xylene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Propionitrile	ND		20	8.5	ug/L			11/09/22 15:13	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Styrene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/09/22 15:13	1
t-Butyl alcohol	ND		20	6.0	ug/L			11/09/22 15:13	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Tetrachloroethene	**0.88**	**J**	1.0	0.30	ug/L			11/09/22 15:13	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/09/22 15:13	1
Toluene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/09/22 15:13	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/09/22 15:13	1
Trichloroethene	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/09/22 15:13	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/09/22 15:13	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/09/22 15:13	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/09/22 15:13	1
Acrolein	ND	cn	10	3.0	ug/L			11/09/22 15:13	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			11/09/22 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 140*		*11/09/22 15:13*	*1*
4-Bromofluorobenzene (Surr)	*122*		*60 - 140*		*11/09/22 15:13*	*1*
Dibromofluoromethane (Surr)	*80*		*60 - 140*		*11/09/22 15:13*	*1*

Client Sample ID: Outfall-001
Date Collected: 11/08/22 10:05
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-2
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*60 - 140*		*11/09/22 15:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**1.1**		1.0	0.20	ug/L			11/15/22 12:45	1
Acetone	**1.4**	**J**	20	0.70	ug/L			11/15/22 12:45	1
2-Butanone	ND		10	0.50	ug/L			11/15/22 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/15/22 12:45*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*11/15/22 12:45*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*11/15/22 12:45*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/15/22 12:45*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
1,2,4,5-Tetrachlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
1,2-Dichlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
1,2-Diphenylhydrazine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
1,3-Dichlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
1,4-Dichlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
1,4-Dioxane	ND		5.1	2.0	ug/L		11/15/22 08:17	11/15/22 21:42	1
1-Methylnaphthalene	ND		5.1	0.36	ug/L		11/15/22 08:17	11/15/22 21:42	1
1-Methylphenanthrene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2,2'-oxybis[1-chloropropane]	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2,3,4,6-Tetrachlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2,3-Dichloroaniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2,4,5-Trichlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2,4,6-Trichlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2,4-Dichlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2,4-Dimethylphenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		11/15/22 08:17	11/15/22 21:42	1
2,4-Dinitrotoluene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2,6-Dichlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2,6-Dinitrotoluene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2-Chloronaphthalene	ND		5.1	1.0	ug/L		11/15/22 08:17	11/15/22 21:42	1
2-Chlorophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2-Methylnaphthalene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:42	1
2-Methylphenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2-Nitroaniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
2-Nitrophenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
3,3'-Dichlorobenzidine	ND		5.1	0.81	ug/L		11/15/22 08:17	11/15/22 21:42	1
3-Nitroaniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		11/15/22 08:17	11/15/22 21:42	1
4-Bromophenyl-phenylether	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
4-Chloro-3-methylphenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
4-Chloroaniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
4-Chlorophenyl-phenylether	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: Outfall-001
Date Collected: 11/08/22 10:05
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-2
Matrix: Groundwater

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
4-Nitroaniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
4-Nitrophenol	ND		5.1	0.92	ug/L		11/15/22 08:17	11/15/22 21:42	1
Acenaphthene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:42	1
Acenaphthylene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:42	1
Acetophenone	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Aniline	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Anthracene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:42	1
a-Terpineol	ND		5.1	0.61	ug/L		11/15/22 08:17	11/15/22 21:42	1
Benzidine	ND		61	6.1	ug/L		11/15/22 08:17	11/15/22 21:42	1
Benzo[a]anthracene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:42	1
Benzo[a]pyrene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:42	1
Benzo[b]fluoranthene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:42	1
Benzo[g,h,i]perylene	ND		5.1	0.31	ug/L		11/15/22 08:17	11/15/22 21:42	1
Benzo[k]fluoranthene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:42	1
Benzoic acid	ND		31	4.1	ug/L		11/15/22 08:17	11/15/22 21:42	1
Benzyl alcohol	ND	*+	5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Bis(2-chloroethoxy)methane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Bis(2-chloroethyl)ether	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Bis(2-ethylhexyl) phthalate	ND		5.1	1.0	ug/L		11/15/22 08:17	11/15/22 21:42	1
Butylbenzylphthalate	ND		5.1	1.0	ug/L		11/15/22 08:17	11/15/22 21:42	1
Carbazole	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Chrysene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:42	1
Dibenz(a,h)anthracene	ND		5.1	0.31	ug/L		11/15/22 08:17	11/15/22 21:42	1
Dibenzofuran	ND	*+	5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Diethylphthalate	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Dimethylphthalate	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Di-n-butyl phthalate	ND		5.1	1.0	ug/L		11/15/22 08:17	11/15/22 21:42	1
Di-n-octyl phthalate	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Diphenyl ether	ND		5.1	0.76	ug/L		11/15/22 08:17	11/15/22 21:42	1
Fluoranthene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:42	1
Fluorene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:42	1
Hexachlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Hexachlorobutadiene	ND		2.0	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Hexachlorocyclopentadiene	ND		15	3.1	ug/L		11/15/22 08:17	11/15/22 21:42	1
Hexachloroethane	ND		2.0	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Indeno[1,2,3-cd]pyrene	ND		5.1	0.31	ug/L		11/15/22 08:17	11/15/22 21:42	1
Isophorone	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Naphthalene	ND		2.0	0.31	ug/L		11/15/22 08:17	11/15/22 21:42	1
n-Decane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
n-Docosane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
n-Eicosane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
n-Hexadecane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Nitrobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
N-Nitrosodiethylamine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
N-Nitrosodimethylamine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
N-Nitrosodi-n-butylamine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
N-Nitrosodi-n-propylamine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
N-Nitrosodiphenylamine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1

Client Sample ID: Outfall-001
Date Collected: 11/08/22 10:05
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-2
Matrix: Groundwater

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
n-Octadecane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
n-Tetradecane	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
o-Toluidine	ND		5.1	1.0	ug/L		11/15/22 08:17	11/15/22 21:42	1
Pentachlorobenzene	ND		5.1	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Pentachlorophenol	ND		5.1	0.81	ug/L		11/15/22 08:17	11/15/22 21:42	1
Phenanthrene	ND		5.1	0.20	ug/L		11/15/22 08:17	11/15/22 21:42	1
Phenol	ND		1.0	0.51	ug/L		11/15/22 08:17	11/15/22 21:42	1
Pyrene	ND		5.1	0.25	ug/L		11/15/22 08:17	11/15/22 21:42	1
Pyridine	ND		5.1	0.81	ug/L		11/15/22 08:17	11/15/22 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*15*		*10 - 150*	*11/15/22 08:17*	*11/15/22 21:42*	*1*
2-Fluorobiphenyl (Surr)	*83*		*32 - 115*	*11/15/22 08:17*	*11/15/22 21:42*	*1*
2-Fluorophenol (Surr)	*31*		*10 - 83*	*11/15/22 08:17*	*11/15/22 21:42*	*1*
Nitrobenzene-d5 (Surr)	*81*		*41 - 111*	*11/15/22 08:17*	*11/15/22 21:42*	*1*
Phenol-d5 (Surr)	*30*		*10 - 59*	*11/15/22 08:17*	*11/15/22 21:42*	*1*
p-Terphenyl-d14 (Surr)	*88*		*37 - 140*	*11/15/22 08:17*	*11/15/22 21:42*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		11/09/22 11:15	11/09/22 19:32	1
Ethene (1C)	ND		5.0	1.0	ug/L		11/09/22 11:15	11/09/22 19:32	1
Methane (1C)	**4.2**	**J**	5.0	3.0	ug/L		11/09/22 11:15	11/09/22 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*54*		*43 - 133*	*11/09/22 11:15*	*11/09/22 19:32*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**170**		75	25	mg/L			11/12/22 16:24	50
Chloride	**1000**		750	300	mg/L			11/14/22 17:08	500

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		11/10/22 06:10	11/15/22 11:14	1
Aluminum	ND		30	12	ug/L		11/10/22 06:10	11/15/22 11:14	1
Arsenic	**1.6**	**J**	2.0	0.68	ug/L		11/10/22 06:10	11/15/22 11:14	1
Barium	**300**		2.0	0.75	ug/L		11/10/22 06:10	11/15/22 11:14	1
Beryllium	ND		0.50	0.12	ug/L		11/10/22 06:10	11/15/22 11:14	1
Cadmium	ND		0.50	0.15	ug/L		11/10/22 06:10	11/15/22 11:14	1
Calcium	**160000**		1200	500	ug/L		11/10/22 06:10	11/17/22 21:09	10
Chromium	ND		2.0	0.33	ug/L		11/10/22 06:10	11/15/22 11:14	1
Cobalt	**1.3**		0.50	0.16	ug/L		11/10/22 06:10	11/15/22 11:14	1
Copper	**0.36**	**J**	1.0	0.36	ug/L		11/10/22 06:10	11/15/22 11:14	1
Iron	**920**		50	20	ug/L		11/10/22 06:10	11/15/22 11:14	1
Lead	ND		0.50	0.071	ug/L		11/10/22 06:10	11/15/22 11:14	1
Magnesium	**87000**	**B ^2**	50	16	ug/L		11/10/22 06:10	11/15/22 11:14	1
Manganese	**2500**	**^2**	2.0	0.95	ug/L		11/10/22 06:10	11/15/22 11:14	1
Nickel	**1.4**		1.0	0.40	ug/L		11/10/22 06:10	11/15/22 11:14	1
Potassium	**18000**		200	65	ug/L		11/10/22 06:10	11/15/22 11:14	1

Client Sample ID: Outfall-001
Date Collected: 11/08/22 10:05
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-2
Matrix: Groundwater

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		1.0	0.28	ug/L		11/10/22 06:10	11/15/22 11:14	1
Silver	ND		0.50	0.10	ug/L		11/10/22 06:10	11/15/22 11:14	1
Sodium	**540000**	**B**	2000	900	ug/L		11/10/22 06:10	11/17/22 21:09	10
Thallium	ND		0.50	0.13	ug/L		11/10/22 06:10	11/15/22 11:14	1
Vanadium	ND		4.0	0.79	ug/L		11/10/22 06:10	11/15/22 11:14	1
Zinc	ND		10	4.0	ug/L		11/10/22 06:10	11/15/22 11:14	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/11/22 08:07	11/11/22 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	**1.8**	**J**	5.6	1.6	mg/L			11/09/22 20:57	1
Turbidity (MCAWW 180.1)	**6.4**		1.0	1.0	NTU			11/09/22 18:05	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**360**		8.0	2.6	mg/L			11/09/22 23:59	1
Total Hardness (SM 2340C-2011)	**750**		100	30	mg/L			11/10/22 13:40	10
Specific Conductance (SM 2510B-2011)	**3900**		5.0	1.7	umhos/cm			11/09/22 23:59	1
Total Dissolved Solids (SM 2540C - 2015)	**1700**		240	96	mg/L			11/09/22 11:05	1
Total Suspended Solids (SM 2540D-2015)	**1.4**	**J**	3.0	1.0	mg/L			11/10/22 15:08	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			11/09/22 14:06	1
Total Kjeldahl Nitrogen (MCAWW 351.2)	**1.4**		1.0	0.50	mg/L		11/10/22 10:15	11/14/22 10:28	1
Nitrate as N (EPA 353.2)	**0.74**		0.10	0.040	mg/L			11/09/22 12:36	1
Total Phosphorus as PO4 (EPA 365.1)	**0.57**		0.31	0.25	mg/L		11/10/22 09:51	11/11/22 08:44	1
Chemical Oxygen Demand (MCAWW 410.4)	**44**	**J**	75	25	mg/L			11/10/22 06:20	1
Phenols, Total (MCAWW 420.4)	**0.012**	**J**	0.020	0.010	mg/L			11/10/22 09:41	1
pH (SM 4500 H+ B-2011)	**8.1**	**HF**	0.01	0.01	S.U.			11/09/22 23:59	1
Temperature (SM 4500 H+ B-2011)	**21.8**	**HF**	0.01	0.01	Degrees C			11/09/22 23:59	1
Biochemical Oxygen Demand (SM 5210 B-2011)	ND		2.0	2.0	mg/L			11/09/22 18:33	1
Langelier Index (SM 2330B)	**0.24**				LangSU			11/13/22 12:38	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: QAQC_TB
Date Collected: 11/08/22 00:00
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-3
Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/09/22 14:27	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/09/22 14:27	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Benzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Bromoform	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Bromomethane	ND		1.0	0.44	ug/L			11/09/22 14:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/09/22 14:27	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			11/09/22 14:27	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/09/22 14:27	1
Chloroethane	ND		1.0	0.44	ug/L			11/09/22 14:27	1
Chloroform	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Chloromethane	ND		1.0	0.64	ug/L			11/09/22 14:27	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/09/22 14:27	1
1,4-Dioxane	ND		100	82	ug/L			11/09/22 14:27	1
Toluene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/09/22 14:27	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/09/22 14:27	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/09/22 14:27	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/09/22 14:27	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/09/22 14:27	1
Trichloroethene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
2-Hexanone	ND		2.0	0.50	ug/L			11/09/22 14:27	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/09/22 14:27	1
2-Propanol	ND		20	8.0	ug/L			11/09/22 14:27	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/09/22 14:27	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/09/22 14:27	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: QAQC_TB
Date Collected: 11/08/22 00:00
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-3
Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/09/22 14:27	1
Acetonitrile	ND		50	14	ug/L			11/09/22 14:27	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/09/22 14:27	1
Bromobenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Butyl acetate	ND		5.0	0.60	ug/L			11/09/22 14:27	1
Carbon disulfide	ND		1.0	0.45	ug/L			11/09/22 14:27	1
Cyclohexane	ND		1.0	0.30	ug/L			11/09/22 14:27	1
Dibromomethane	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			11/09/22 14:27	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			11/09/22 14:27	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/09/22 14:27	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Freon 113	ND		1.0	0.30	ug/L			11/09/22 14:27	1
Freon 123a	ND		1.0	0.44	ug/L			11/09/22 14:27	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Isobutyl alcohol	ND		50	11	ug/L			11/09/22 14:27	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/09/22 14:27	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/09/22 14:27	1
Methacrylonitrile	ND		10	2.0	ug/L			11/09/22 14:27	1
Methyl iodide	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Naphthalene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Propionitrile	ND		20	8.5	ug/L			11/09/22 14:27	1
Styrene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/09/22 14:27	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/09/22 14:27	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/09/22 14:27	1
m&p-Xylene	ND		1.0	0.30	ug/L			11/09/22 14:27	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
n-Heptane	ND		1.0	0.30	ug/L			11/09/22 14:27	1
n-Hexane	ND		1.0	0.46	ug/L			11/09/22 14:27	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/09/22 14:27	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
o-Xylene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/09/22 14:27	1
t-Butyl alcohol	ND		20	6.0	ug/L			11/09/22 14:27	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:27	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/09/22 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 140*		*11/09/22 14:27*	*1*
4-Bromofluorobenzene (Surr)	*119*		*60 - 140*		*11/09/22 14:27*	*1*
Dibromofluoromethane (Surr)	*83*		*60 - 140*		*11/09/22 14:27*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*11/09/22 14:27*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: QAQC_TB
Date Collected: 11/08/22 00:00
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104888-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/15/22 11:45	1
Acetone	ND		20	0.70	ug/L			11/15/22 11:45	1
2-Butanone	ND		10	0.50	ug/L			11/15/22 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/15/22 11:45*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/15/22 11:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*11/15/22 11:45*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/15/22 11:45*	*1*

Action Limit Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104888-1
Project/Site: EMGPRP-31097

Client Sample ID: Outfall-01A
Lab Sample ID: 410-104888-1

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	1.6	J	mg/L	5	5.4	1664A	Total/NA

Client Sample ID: Outfall-001
Lab Sample ID: 410-104888-2

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	1.8	J	mg/L	5	5.6	1664A	Total/NA

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-104888-1	Outfall-01A	88	120	82	96
410-104888-1 MS	Outfall-01A	86	116	86	102
410-104888-1 MSD	Outfall-01A	84	112	84	103
410-104888-2	Outfall-001	85	122	80	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-104888-3	QAQC_TB	85	119	83	99
LCS 410-315728/1003	Lab Control Sample	89	114	86	103
LCS 410-315728/1004	Lab Control Sample	89	120	85	100
MB 410-315728/5	Method Blank	86	116	87	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Groundwater

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-104888-1	Outfall-01A	100	100	107	97
410-104888-2	Outfall-001	100	100	107	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-104888-3	QAQC_TB	100	99	104	98
LCS 410-317546/4	Lab Control Sample	99	98	107	100
MB 410-317546/6	Method Blank	99	100	108	97

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104888-1
Project/Site: EMGPRP-31097

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-111)	(10-59)	(37-140)
410-104888-1	Outfall-01A	13	78	30	80	26	97
410-104888-2	Outfall-001	15	83	31	81	30	88

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-111)	(10-59)	(37-140)
LCS 410-317595/2-A	Lab Control Sample	89	89	61	86	45	111
LCS 410-317595/4-A	Lab Control Sample	86	85	58	86	40	100
LCSD 410-317595/3-A	Lab Control Sample Dup	90	80	56	81	40	99
LCSD 410-317595/5-A	Lab Control Sample Dup	87	87	56	88	39	98
MB 410-317595/1-A	Method Blank	79	78	51	77	37	77

Surrogate Legend

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

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		Propene1
Lab Sample ID	Client Sample ID	(43-133)
410-104888-1	Outfall-01A	54
410-104888-2	Outfall-001	54

Surrogate Legend

Propene = Propene

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104888-1
Project/Site: EMGPRP-31097

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(43-133)								
LCS 410-315663/2-A	Lab Control Sample	105								
LCSD 410-315663/3-A	Lab Control Sample Dup	101								
MB 410-315663/1-A	Method Blank	105								

Surrogate Legend

Propene = Propene

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-315728/5
Matrix: Water
Analysis Batch: 315728

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/09/22 14:04	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/09/22 14:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/09/22 14:04	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/09/22 14:04	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			11/09/22 14:04	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			11/09/22 14:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Benzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
1,4-Dioxane	ND		100	82	ug/L			11/09/22 14:04	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/09/22 14:04	1
Bromoform	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Bromomethane	ND		1.0	0.44	ug/L			11/09/22 14:04	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/09/22 14:04	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			11/09/22 14:04	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/09/22 14:04	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Chloroethane	ND		1.0	0.44	ug/L			11/09/22 14:04	1
2-Hexanone	ND		2.0	0.50	ug/L			11/09/22 14:04	1
Chloroform	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Chloromethane	ND		1.0	0.64	ug/L			11/09/22 14:04	1
2-Propanol	ND		20	8.0	ug/L			11/09/22 14:04	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/09/22 14:04	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/09/22 14:04	1
Acetonitrile	ND		50	14	ug/L			11/09/22 14:04	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/09/22 14:04	1
Bromobenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Butyl acetate	ND		5.0	0.60	ug/L			11/09/22 14:04	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Carbon disulfide	ND		1.0	0.45	ug/L			11/09/22 14:04	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-315728/5
Matrix: Water
Analysis Batch: 315728

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.30	ug/L			11/09/22 14:04	1
Dibromomethane	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			11/09/22 14:04	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			11/09/22 14:04	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/09/22 14:04	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Freon 113	ND		1.0	0.30	ug/L			11/09/22 14:04	1
Freon 123a	ND		1.0	0.44	ug/L			11/09/22 14:04	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/09/22 14:04	1
Isobutyl alcohol	ND		50	11	ug/L			11/09/22 14:04	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/09/22 14:04	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/09/22 14:04	1
Methacrylonitrile	ND		10	2.0	ug/L			11/09/22 14:04	1
Methyl iodide	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Naphthalene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Propionitrile	ND		20	8.5	ug/L			11/09/22 14:04	1
Styrene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/09/22 14:04	1
m&p-Xylene	ND		1.0	0.30	ug/L			11/09/22 14:04	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
n-Heptane	ND		1.0	0.30	ug/L			11/09/22 14:04	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/09/22 14:04	1
n-Hexane	ND		1.0	0.46	ug/L			11/09/22 14:04	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/09/22 14:04	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/09/22 14:04	1
Toluene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
o-Xylene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/09/22 14:04	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Trichloroethene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
t-Butyl alcohol	ND		20	6.0	ug/L			11/09/22 14:04	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/09/22 14:04	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/09/22 14:04	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/09/22 14:04	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/09/22 14:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/09/22 14:04	1
Acrolein	ND		10	3.0	ug/L			11/09/22 14:04	1
Acrylonitrile	ND		3.0	1.1	ug/L			11/09/22 14:04	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-315728/5
Matrix: Water
Analysis Batch: 315728

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 140*		*11/09/22 14:04*	*1*
4-Bromofluorobenzene (Surr)	*116*		*60 - 140*		*11/09/22 14:04*	*1*
Dibromofluoromethane (Surr)	*87*		*60 - 140*		*11/09/22 14:04*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*11/09/22 14:04*	*1*

Lab Sample ID: LCS 410-315728/1003
Matrix: Water
Analysis Batch: 315728

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.2		ug/L		96	60 - 140
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	20.0	24.9		ug/L		125	60 - 140
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	70 - 130
1,1-Dichloroethane	20.0	17.9		ug/L		90	70 - 130
1,1-Dichloroethene	20.0	15.3		ug/L		77	50 - 150
1,1-Dichloropropene	20.0	22.4		ug/L		112	60 - 140
1,2,3-Trichlorobenzene	20.0	19.3		ug/L		97	60 - 140
1,2,3-Trichloropropane	20.0	21.9		ug/L		110	60 - 140
1,2,4-Trichlorobenzene	20.0	19.9		ug/L		100	60 - 140
1,2-Dichloroethane	20.0	18.1		ug/L		91	70 - 130
1,2,4-Trimethylbenzene	20.0	23.2		ug/L		116	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	25.2		ug/L		126	60 - 140
1,2-Dichloropropane	20.0	22.0		ug/L		110	35 - 165
1,2-Dibromoethane	20.0	20.9		ug/L		104	60 - 140
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	65 - 135
1,2-Dichloroethene (total)	40.0	30.6		ug/L		77	60 - 140
1,3,5-Trimethylbenzene	20.0	23.8		ug/L		119	60 - 140
1,3-Dichlorobenzene	20.0	20.1		ug/L		100	70 - 130
1,3-Dichloropropane	20.0	22.4		ug/L		112	60 - 140
1,4-Dichlorobenzene	20.0	20.2		ug/L		101	65 - 135
Benzene	20.0	21.6		ug/L		108	65 - 135
1,4-Dioxane	500	510		ug/L		102	60 - 140
Bromodichloromethane	20.0	20.0		ug/L		100	65 - 135
2,2-Dichloropropane	20.0	14.7		ug/L		73	60 - 140
Bromoform	20.0	21.2		ug/L		106	70 - 130
Bromomethane	20.0	14.8		ug/L		74	15 - 185
2-Chloro-1,3-butadiene	20.0	19.8		ug/L		99	60 - 140
Carbon tetrachloride	20.0	18.6		ug/L		93	70 - 130
2-Chlorotoluene	20.0	21.6		ug/L		108	60 - 140
Chlorobenzene	20.0	20.2		ug/L		101	65 - 135
Chloroethane	20.0	17.0		ug/L		85	40 - 160
2-Hexanone	250	339		ug/L		136	60 - 140
Chloroform	20.0	19.2		ug/L		96	70 - 135
Chloromethane	20.0	19.3		ug/L		97	10 - 200
2-Propanol	150	118		ug/L		78	60 - 140
cis-1,2-Dichloroethene	20.0	15.2		ug/L		76	60 - 140
cis-1,3-Dichloropropene	20.0	23.3		ug/L		116	25 - 175

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-315728/1003
Matrix: Water
Analysis Batch: 315728

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorotoluene	20.0	22.7		ug/L		113	60 - 140
Dibromochloromethane	20.0	20.6		ug/L		103	70 - 135
4-Methyl-2-pentanone	250	324		ug/L		130	60 - 140
Benzyl chloride	20.0	24.2		ug/L		121	60 - 140
Bromobenzene	20.0	21.2		ug/L		106	60 - 140
Ethylbenzene	20.0	22.4		ug/L		112	60 - 140
Carbon disulfide	20.0	19.5		ug/L		97	60 - 140
Cyclohexane	20.0	27.6		ug/L		138	60 - 140
Dibromomethane	20.0	18.2		ug/L		91	60 - 140
Dichlorodifluoromethane	20.0	20.8		ug/L		104	60 - 140
Dichlorofluoromethane	20.0	15.8		ug/L		79	60 - 140
Ethyl methacrylate	20.0	25.0		ug/L		125	60 - 140
Ethyl t-butyl ether	20.0	17.7		ug/L		88	60 - 140
Freon 113	20.0	17.3		ug/L		86	60 - 140
Freon 123a	20.0	16.2		ug/L		81	60 - 140
Hexachlorobutadiene	20.0	16.9		ug/L		84	60 - 140
Methylene Chloride	20.0	15.5		ug/L		78	60 - 140
Isobutyl alcohol	500	476		ug/L		95	60 - 140
Isopropylbenzene	20.0	22.9		ug/L		114	60 - 140
Methacrylonitrile	150	153		ug/L		102	60 - 140
Methyl iodide	20.0	14.7		ug/L		73	60 - 140
Methyl methacrylate	20.0	25.0		ug/L		125	60 - 140
Naphthalene	20.0	21.3		ug/L		106	60 - 140
Propionitrile	150	112		ug/L		74	60 - 140
Styrene	20.0	23.1		ug/L		116	60 - 140
di-Isopropyl ether	20.0	21.1		ug/L		105	60 - 140
m&p-Xylene	40.0	44.8		ug/L		112	60 - 140
n-Butylbenzene	20.0	22.3		ug/L		112	60 - 140
n-Heptane	20.0	22.0		ug/L		110	60 - 140
Tetrachloroethene	20.0	18.6		ug/L		93	70 - 130
n-Hexane	20.0	22.0		ug/L		110	60 - 140
Tetrahydrofuran	100	94.5		ug/L		95	60 - 140
Toluene	20.0	21.7		ug/L		109	70 - 130
N-Propylbenzene	20.0	23.9		ug/L		119	60 - 140
o-Xylene	20.0	22.2		ug/L		111	60 - 140
trans-1,2-Dichloroethene	20.0	15.4		ug/L		77	70 - 130
p-Isopropyltoluene	20.0	23.0		ug/L		115	60 - 140
trans-1,3-Dichloropropene	20.0	25.0		ug/L		125	50 - 150
sec-Butylbenzene	20.0	23.6		ug/L		118	60 - 140
t-Amyl methyl ether	20.0	23.3		ug/L		116	60 - 140
Trichloroethene	20.0	18.8		ug/L		94	65 - 135
t-Butyl alcohol	200	140		ug/L		70	60 - 140
Trichlorofluoromethane	20.0	14.4		ug/L		72	50 - 150
tert-Butylbenzene	20.0	23.9		ug/L		119	60 - 140
trans-1,4-Dichloro-2-butene	100	138		ug/L		138	60 - 140
Vinyl chloride	20.0	19.4		ug/L		97	10 - 195
Xylenes, Total	60.0	67.0		ug/L		112	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-315728/1003
Matrix: Water
Analysis Batch: 315728

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		60 - 140
4-Bromofluorobenzene (Surr)	114		60 - 140
Dibromofluoromethane (Surr)	86		60 - 140
Toluene-d8 (Surr)	103		60 - 140

Lab Sample ID: LCS 410-315728/1004
Matrix: Water
Analysis Batch: 315728

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	150	109		ug/L		73	60 - 140
Butyl acetate	20.0	21.9		ug/L		109	60 - 140
Ethyl acetate	20.0	18.7		ug/L		93	60 - 140
Isopropyl acetate	20.0	20.2		ug/L		101	60 - 140
n-Propyl acetate	20.0	24.9		ug/L		125	60 - 140
Vinyl acetate	100	99.3		ug/L		99	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		60 - 140
4-Bromofluorobenzene (Surr)	120		60 - 140
Dibromofluoromethane (Surr)	85		60 - 140
Toluene-d8 (Surr)	100		60 - 140

Lab Sample ID: 410-104888-1 MS
Matrix: Groundwater
Analysis Batch: 315728

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		20.0	18.5		ug/L		92	60 - 140
1,1,1-Trichloroethane	ND		20.0	21.4		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	ND		20.0	23.8		ug/L		119	60 - 140
1,1,2-Trichloroethane	ND		20.0	20.8		ug/L		104	70 - 130
1,1-Dichloroethane	ND		20.0	18.5		ug/L		93	70 - 130
1,1-Dichloroethene	ND		20.0	17.5		ug/L		87	50 - 150
1,1-Dichloropropene	ND		20.0	24.5		ug/L		122	60 - 140
1,2,3-Trichlorobenzene	ND		20.0	19.7		ug/L		98	60 - 140
1,2,3-Trichloropropane	ND		20.0	22.4		ug/L		112	60 - 140
1,2,4-Trichlorobenzene	ND		20.0	19.7		ug/L		98	60 - 140
1,2-Dichloroethane	ND		20.0	17.5		ug/L		88	70 - 130
1,2,4-Trimethylbenzene	ND		20.0	24.5		ug/L		123	60 - 140
1,2-Dibromo-3-Chloropropane	ND		20.0	22.1		ug/L		110	60 - 140
1,2-Dichloropropane	ND		20.0	23.3		ug/L		116	35 - 165
1,2-Dibromoethane	ND		20.0	21.3		ug/L		107	60 - 140
1,2-Dichlorobenzene	ND		20.0	20.2		ug/L		101	65 - 135
1,2-Dichloroethene (total)	1.0		40.0	33.7		ug/L		82	60 - 140
1,3,5-Trimethylbenzene	ND		20.0	25.1		ug/L		126	60 - 140
1,3-Dichlorobenzene	ND		20.0	20.7		ug/L		103	70 - 130
1,3-Dichloropropane	ND		20.0	22.4		ug/L		112	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-104888-1 MS
Matrix: Groundwater
Analysis Batch: 315728

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	ND		20.0	20.0		ug/L		100	65 - 135
Benzene	ND		20.0	22.9		ug/L		114	65 - 135
1,4-Dioxane	ND		500	503		ug/L		101	60 - 140
Bromodichloromethane	ND		20.0	20.1		ug/L		101	65 - 135
2,2-Dichloropropane	ND		20.0	18.7		ug/L		94	60 - 140
Bromoform	ND		20.0	19.2		ug/L		96	70 - 130
Bromomethane	ND		20.0	16.1		ug/L		81	15 - 185
2-Chloro-1,3-butadiene	ND		20.0	22.8		ug/L		114	60 - 140
Carbon tetrachloride	ND		20.0	21.5		ug/L		108	70 - 130
2-Chlorotoluene	ND		20.0	22.8		ug/L		114	60 - 140
Chlorobenzene	ND		20.0	21.2		ug/L		106	65 - 135
Chloroethane	ND		20.0	19.8		ug/L		99	40 - 160
2-Hexanone	ND		250	345		ug/L		138	60 - 140
Chloroform	ND		20.0	19.3		ug/L		96	70 - 135
Chloromethane	ND		20.0	23.7		ug/L		118	10 - 200
2-Propanol	ND	F2 F1	150	112		ug/L		75	60 - 140
cis-1,2-Dichloroethene	1.0		20.0	18.3		ug/L		86	60 - 140
cis-1,3-Dichloropropene	ND		20.0	22.4		ug/L		112	25 - 175
4-Chlorotoluene	ND		20.0	23.5		ug/L		118	60 - 140
Dibromochloromethane	ND		20.0	20.3		ug/L		101	70 - 135
4-Methyl-2-pentanone	ND		250	286		ug/L		114	60 - 140
Benzyl chloride	ND		20.0	24.2		ug/L		121	60 - 140
Bromobenzene	ND		20.0	21.8		ug/L		109	60 - 140
Ethylbenzene	ND		20.0	23.6		ug/L		118	60 - 140
Carbon disulfide	ND		20.0	18.0		ug/L		90	60 - 140
Cyclohexane	ND	F1	20.0	32.0	F1	ug/L		160	60 - 140
Dibromomethane	ND		20.0	18.0		ug/L		90	60 - 140
Dichlorodifluoromethane	ND		20.0	24.2		ug/L		121	60 - 140
Dichlorofluoromethane	ND		20.0	18.3		ug/L		91	60 - 140
Ethyl methacrylate	ND		20.0	23.5		ug/L		118	60 - 140
Ethyl t-butyl ether	ND		20.0	20.5		ug/L		102	60 - 140
Freon 113	ND		20.0	20.4		ug/L		102	60 - 140
Freon 123a	ND		20.0	19.7		ug/L		98	60 - 140
Hexachlorobutadiene	ND		20.0	18.5		ug/L		93	60 - 140
Methylene Chloride	ND		20.0	13.1		ug/L		65	60 - 140
Isobutyl alcohol	ND		500	583		ug/L		117	60 - 140
Isopropylbenzene	ND		20.0	24.1		ug/L		121	60 - 140
Methacrylonitrile	ND		150	146		ug/L		98	60 - 140
Methyl iodide	ND		20.0	13.8		ug/L		69	60 - 140
Methyl methacrylate	ND		20.0	24.4		ug/L		122	60 - 140
Naphthalene	ND		20.0	20.8		ug/L		104	60 - 140
Propionitrile	ND		150	130		ug/L		87	60 - 140
Styrene	ND		20.0	23.0		ug/L		115	60 - 140
di-Isopropyl ether	ND		20.0	21.0		ug/L		105	60 - 140
m&p-Xylene	ND		40.0	48.7		ug/L		122	60 - 140
n-Butylbenzene	ND		20.0	24.0		ug/L		120	60 - 140
n-Heptane	ND		20.0	26.6		ug/L		133	60 - 140
Tetrachloroethene	0.97	J	20.0	21.6		ug/L		103	70 - 130
n-Hexane	ND		20.0	26.4		ug/L		132	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-104888-1 MS
Matrix: Groundwater
Analysis Batch: 315728

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrahydrofuran	ND		100	96.5		ug/L		96	60 - 140
Toluene	ND		20.0	22.8		ug/L		114	70 - 130
N-Propylbenzene	ND		20.0	25.0		ug/L		125	60 - 140
o-Xylene	ND		20.0	22.6		ug/L		113	60 - 140
trans-1,2-Dichloroethene	ND		20.0	15.4		ug/L		77	70 - 130
p-Isopropyltoluene	ND		20.0	24.5		ug/L		122	60 - 140
trans-1,3-Dichloropropene	ND		20.0	24.2		ug/L		121	50 - 150
sec-Butylbenzene	ND		20.0	25.5		ug/L		127	60 - 140
t-Amyl methyl ether	ND		20.0	22.8		ug/L		114	60 - 140
Trichloroethene	0.21	J	20.0	20.8		ug/L		103	65 - 135
t-Butyl alcohol	ND		200	144		ug/L		72	60 - 140
Trichlorofluoromethane	ND		20.0	16.2		ug/L		81	50 - 150
tert-Butylbenzene	ND		20.0	24.7		ug/L		123	60 - 140
trans-1,4-Dichloro-2-butene	ND		100	127		ug/L		127	60 - 140
Vinyl chloride	ND		20.0	22.3		ug/L		111	10 - 195
Xylenes, Total	ND		60.0	71.3		ug/L		119	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 140*
4-Bromofluorobenzene (Surr)	*116*		*60 - 140*
Dibromofluoromethane (Surr)	*86*		*60 - 140*
Toluene-d8 (Surr)	*102*		*60 - 140*

Lab Sample ID: 410-104888-1 MSD
Matrix: Groundwater
Analysis Batch: 315728

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	18.8		ug/L		94	60 - 140	2	30
1,1,1-Trichloroethane	ND		20.0	21.1		ug/L		106	70 - 130	1	30
1,1,2,2-Tetrachloroethane	ND		20.0	23.5		ug/L		118	60 - 140	1	30
1,1,2-Trichloroethane	ND		20.0	20.1		ug/L		101	70 - 130	3	30
1,1-Dichloroethane	ND		20.0	15.7		ug/L		78	70 - 130	17	30
1,1-Dichloroethene	ND		20.0	13.9		ug/L		70	50 - 150	22	30
1,1-Dichloropropene	ND		20.0	23.6		ug/L		118	60 - 140	4	30
1,2,3-Trichlorobenzene	ND		20.0	19.1		ug/L		95	60 - 140	3	30
1,2,3-Trichloropropane	ND		20.0	21.6		ug/L		108	60 - 140	4	30
1,2,4-Trichlorobenzene	ND		20.0	19.8		ug/L		99	60 - 140	1	30
1,2-Dichloroethane	ND		20.0	18.1		ug/L		91	70 - 130	3	30
1,2,4-Trimethylbenzene	ND		20.0	24.2		ug/L		121	60 - 140	1	30
1,2-Dibromo-3-Chloropropane	ND		20.0	22.6		ug/L		113	60 - 140	2	30
1,2-Dichloropropane	ND		20.0	22.6		ug/L		113	35 - 165	3	30
1,2-Dibromoethane	ND		20.0	20.2		ug/L		101	60 - 140	6	30
1,2-Dichlorobenzene	ND		20.0	20.0		ug/L		100	65 - 135	1	30
1,2-Dichloroethene (total)	1.0		40.0	33.4		ug/L		81	60 - 140	1	30
1,3,5-Trimethylbenzene	ND		20.0	24.4		ug/L		122	60 - 140	3	30
1,3-Dichlorobenzene	ND		20.0	20.1		ug/L		101	70 - 130	3	30
1,3-Dichloropropane	ND		20.0	22.2		ug/L		111	60 - 140	1	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-104888-1 MSD
Matrix: Groundwater
Analysis Batch: 315728

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		20.0	20.3		ug/L		101	65 - 135	1	30
Benzene	ND		20.0	22.1		ug/L		110	65 - 135	4	30
1,4-Dioxane	ND		500	501		ug/L		100	60 - 140	0	30
Bromodichloromethane	ND		20.0	20.5		ug/L		102	65 - 135	2	30
2,2-Dichloropropane	ND		20.0	18.5		ug/L		93	60 - 140	1	30
Bromoform	ND		20.0	19.5		ug/L		97	70 - 130	2	30
Bromomethane	ND		20.0	15.4		ug/L		77	15 - 185	4	30
2-Chloro-1,3-butadiene	ND		20.0	20.0		ug/L		100	60 - 140	13	30
Carbon tetrachloride	ND		20.0	20.8		ug/L		104	70 - 130	4	30
2-Chlorotoluene	ND		20.0	22.1		ug/L		110	60 - 140	3	30
Chlorobenzene	ND		20.0	20.6		ug/L		103	65 - 135	3	30
Chloroethane	ND		20.0	18.3		ug/L		92	40 - 160	8	30
2-Hexanone	ND		250	299		ug/L		120	60 - 140	14	30
Chloroform	ND		20.0	19.2		ug/L		96	70 - 135	0	30
Chloromethane	ND		20.0	23.3		ug/L		116	10 - 200	2	30
2-Propanol	ND	F2 F1	150	78.8	F2 F1	ug/L		53	60 - 140	35	30
cis-1,2-Dichloroethene	1.0		20.0	18.5		ug/L		87	60 - 140	1	30
cis-1,3-Dichloropropene	ND		20.0	23.1		ug/L		115	25 - 175	3	30
4-Chlorotoluene	ND		20.0	23.0		ug/L		115	60 - 140	2	30
Dibromochloromethane	ND		20.0	20.9		ug/L		104	70 - 135	3	30
4-Methyl-2-pentanone	ND		250	287		ug/L		115	60 - 140	0	30
Benzyl chloride	ND		20.0	23.8		ug/L		119	60 - 140	2	30
Bromobenzene	ND		20.0	21.0		ug/L		105	60 - 140	4	30
Ethylbenzene	ND		20.0	23.5		ug/L		118	60 - 140	0	30
Carbon disulfide	ND		20.0	17.3		ug/L		87	60 - 140	4	30
Cyclohexane	ND	F1	20.0	30.5	F1	ug/L		152	60 - 140	5	30
Dibromomethane	ND		20.0	17.8		ug/L		89	60 - 140	1	30
Dichlorodifluoromethane	ND		20.0	22.7		ug/L		113	60 - 140	7	30
Dichlorofluoromethane	ND		20.0	18.5		ug/L		92	60 - 140	1	30
Ethyl methacrylate	ND		20.0	24.2		ug/L		121	60 - 140	3	30
Ethyl t-butyl ether	ND		20.0	20.9		ug/L		104	60 - 140	2	30
Freon 113	ND		20.0	16.8		ug/L		84	60 - 140	19	30
Freon 123a	ND		20.0	14.9		ug/L		75	60 - 140	28	30
Hexachlorobutadiene	ND		20.0	18.2		ug/L		91	60 - 140	1	30
Methylene Chloride	ND		20.0	15.1		ug/L		76	60 - 140	15	30
Isobutyl alcohol	ND		500	581		ug/L		116	60 - 140	0	30
Isopropylbenzene	ND		20.0	24.2		ug/L		121	60 - 140	1	30
Methacrylonitrile	ND		150	147		ug/L		98	60 - 140	0	30
Methyl iodide	ND		20.0	13.8		ug/L		69	60 - 140	0	30
Methyl methacrylate	ND		20.0	22.7		ug/L		114	60 - 140	7	30
Naphthalene	ND		20.0	20.9		ug/L		105	60 - 140	0	30
Propionitrile	ND		150	111		ug/L		74	60 - 140	15	30
Styrene	ND		20.0	22.5		ug/L		113	60 - 140	2	30
di-Isopropyl ether	ND		20.0	18.0		ug/L		90	60 - 140	15	30
m&p-Xylene	ND		40.0	48.0		ug/L		120	60 - 140	1	30
n-Butylbenzene	ND		20.0	23.9		ug/L		119	60 - 140	1	30
n-Heptane	ND		20.0	26.2		ug/L		131	60 - 140	2	30
Tetrachloroethene	0.97	J	20.0	20.8		ug/L		99	70 - 130	4	30
n-Hexane	ND		20.0	25.1		ug/L		126	60 - 140	5	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-104888-1 MSD
Matrix: Groundwater
Analysis Batch: 315728

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrahydrofuran	ND		100	89.2		ug/L		89	60 - 140	8	30
Toluene	ND		20.0	22.7		ug/L		113	70 - 130	1	30
N-Propylbenzene	ND		20.0	24.8		ug/L		124	60 - 140	1	30
o-Xylene	ND		20.0	22.7		ug/L		114	60 - 140	1	30
trans-1,2-Dichloroethene	ND		20.0	14.9		ug/L		75	70 - 130	3	30
p-Isopropyltoluene	ND		20.0	24.0		ug/L		120	60 - 140	2	30
trans-1,3-Dichloropropene	ND		20.0	26.0		ug/L		130	50 - 150	7	30
sec-Butylbenzene	ND		20.0	24.9		ug/L		124	60 - 140	2	30
t-Amyl methyl ether	ND		20.0	21.9		ug/L		110	60 - 140	4	30
Trichloroethene	0.21	J	20.0	19.8		ug/L		98	65 - 135	5	30
t-Butyl alcohol	ND		200	167		ug/L		83	60 - 140	15	30
Trichlorofluoromethane	ND		20.0	16.6		ug/L		83	50 - 150	3	30
tert-Butylbenzene	ND		20.0	24.0		ug/L		120	60 - 140	3	30
trans-1,4-Dichloro-2-butene	ND		100	112		ug/L		112	60 - 140	13	30
Vinyl chloride	ND		20.0	20.9		ug/L		105	10 - 195	6	30
Xylenes, Total	ND		60.0	70.7		ug/L		118	60 - 140	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 140*
4-Bromofluorobenzene (Surr)	*112*		*60 - 140*
Dibromofluoromethane (Surr)	*84*		*60 - 140*
Toluene-d8 (Surr)	*103*		*60 - 140*

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

Lab Sample ID: MB 410-317546/6
Matrix: Water
Analysis Batch: 317546

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/15/22 10:43	1
Acetone	ND		20	0.70	ug/L			11/15/22 10:43	1
2-Butanone	ND		10	0.50	ug/L			11/15/22 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*11/15/22 10:43*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*11/15/22 10:43*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*11/15/22 10:43*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/15/22 10:43*	*1*

Lab Sample ID: LCS 410-317546/4
Matrix: Water
Analysis Batch: 317546

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tertiary butyl ether	20.0	18.9		ug/L		95	69 - 122
Acetone	250	230		ug/L		92	54 - 157
2-Butanone	250	289		ug/L		115	59 - 135

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

Lab Sample ID: LCS 410-317546/4
Matrix: Water
Analysis Batch: 317546

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	107		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-317595/1-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,4-Dioxane	ND		5.0	2.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		11/15/22 08:17	11/15/22 19:12	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Chlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Methylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Nitroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Nitrophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		11/15/22 08:17	11/15/22 19:12	1
3-Nitroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Chloroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Methylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Nitroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Nitrophenol	ND		5.0	0.90	ug/L		11/15/22 08:17	11/15/22 19:12	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-317595/1-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
Acenaphthylene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Acetophenone	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Aniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Anthracene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
a-Terpineol	ND		5.0	0.60	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzidine	ND		60	6.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzoic acid	ND		30	4.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzyl alcohol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Carbazole	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Chrysene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		11/15/22 08:17	11/15/22 19:12	1
Dibenzofuran	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Diethylphthalate	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Dimethylphthalate	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Diphenyl ether	ND		5.0	0.75	ug/L		11/15/22 08:17	11/15/22 19:12	1
Fluoranthene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Fluorene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Hexachloroethane	ND		2.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		11/15/22 08:17	11/15/22 19:12	1
Isophorone	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Naphthalene	ND		2.0	0.30	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Decane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Docosane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Eicosane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Hexadecane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Nitrobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Octadecane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Tetradecane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-317595/1-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Toluidine	ND		5.0	1.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Pentachlorophenol	ND		5.0	0.80	ug/L		11/15/22 08:17	11/15/22 19:12	1
Phenanthrene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Phenol	ND		1.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Pyrene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
Pyridine	ND		5.0	0.80	ug/L		11/15/22 08:17	11/15/22 19:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*79*		*10 - 150*	*11/15/22 08:17*	*11/15/22 19:12*	*1*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*	*11/15/22 08:17*	*11/15/22 19:12*	*1*
2-Fluorophenol (Surr)	*51*		*10 - 83*	*11/15/22 08:17*	*11/15/22 19:12*	*1*
Nitrobenzene-d5 (Surr)	*77*		*41 - 111*	*11/15/22 08:17*	*11/15/22 19:12*	*1*
Phenol-d5 (Surr)	*37*		*10 - 59*	*11/15/22 08:17*	*11/15/22 19:12*	*1*
p-Terphenyl-d14 (Surr)	*77*		*37 - 140*	*11/15/22 08:17*	*11/15/22 19:12*	*1*

Lab Sample ID: LCS 410-317595/2-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	50.0	53.0		ug/L		106	58 - 111
1,2,4,5-Tetrachlorobenzene	50.0	48.1		ug/L		96	36 - 106
1,2,4-Trichlorobenzene	50.0	45.6		ug/L		91	44 - 142
1,2-Dichlorobenzene	50.0	44.5		ug/L		89	36 - 95
1,2-Diphenylhydrazine	50.0	56.8		ug/L		114	57 - 127
1,3-Dichlorobenzene	50.0	44.3		ug/L		89	32 - 95
1,4-Dichlorobenzene	50.0	43.2		ug/L		86	33 - 92
1,4-Dioxane	50.0	27.0		ug/L		54	30 - 60
1-Methylnaphthalene	50.0	49.7		ug/L		99	53 - 105
1-Methylphenanthrene	50.0	54.4		ug/L		109	70 - 114
2,2'-oxybis[1-chloropropane]	50.0	49.1		ug/L		98	48 - 110
2,3,4,6-Tetrachlorophenol	50.0	48.4		ug/L		97	61 - 117
2,3-Dichloroaniline	50.0	51.3		ug/L		103	59 - 116
2,4,5-Trichlorophenol	50.0	58.3		ug/L		117	67 - 122
2,4,6-Trichlorophenol	50.0	59.9		ug/L		120	37 - 144
2,4-Dichlorophenol	50.0	56.0		ug/L		112	39 - 135
2,4-Dimethylphenol	50.0	52.1		ug/L		104	32 - 120
2,4-Dinitrophenol	100	101		ug/L		101	10 - 191
2,4-Dinitrotoluene	50.0	57.4		ug/L		115	39 - 139
2,6-Dichlorophenol	50.0	56.6		ug/L		113	72 - 113
2,6-Dinitrotoluene	50.0	55.4		ug/L		111	50 - 158
2-Chloronaphthalene	50.0	49.2		ug/L		98	60 - 120
2-Chlorophenol	50.0	48.6		ug/L		97	23 - 134
2-Methylnaphthalene	50.0	48.8		ug/L		98	44 - 111
2-Methylphenol	50.0	47.9		ug/L		96	52 - 105
2-Nitroaniline	50.0	56.1		ug/L		112	60 - 125
2-Nitrophenol	50.0	52.7		ug/L		105	29 - 182

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-317595/2-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3,3'-Dichlorobenzidine	100	77.0		ug/L		77	10 - 200
3-Nitroaniline	50.0	46.3		ug/L		93	58 - 114
4,6-Dinitro-2-methylphenol	100	111		ug/L		111	10 - 181
4-Bromophenyl-phenylether	50.0	56.1		ug/L		112	53 - 127
4-Chloro-3-methylphenol	50.0	50.5		ug/L		101	22 - 147
4-Chloroaniline	50.0	33.8		ug/L		68	39 - 104
4-Chlorophenyl-phenylether	50.0	53.8		ug/L		108	25 - 158
4-Methylphenol	50.0	45.6		ug/L		91	47 - 96
4-Nitroaniline	50.0	51.2		ug/L		102	59 - 111
4-Nitrophenol	100	70.5		ug/L		71	10 - 132
Acenaphthene	50.0	53.0		ug/L		106	47 - 145
Acenaphthylene	50.0	53.2		ug/L		106	33 - 145
Acetophenone	50.0	49.9		ug/L		100	56 - 108
Aniline	50.0	30.5		ug/L		61	26 - 95
Anthracene	50.0	55.9		ug/L		112	27 - 133
a-Terpineol	50.0	54.2		ug/L		108	65 - 117
Benzidine	100	17.3	J	ug/L		17	10 - 72
Benzo[a]anthracene	50.0	55.6		ug/L		111	33 - 143
Benzo[a]pyrene	50.0	53.9		ug/L		108	17 - 163
Benzo[b]fluoranthene	50.0	51.6		ug/L		103	24 - 159
Benzo[g,h,i]perylene	50.0	55.0		ug/L		110	10 - 200
Benzo[k]fluoranthene	50.0	58.1		ug/L		116	11 - 162
Benzoic acid	50.0	15.5	J	ug/L		31	10 - 96
Benzyl alcohol	50.0	60.2	*+	ug/L		120	38 - 104
Bis(2-chloroethoxy)methane	50.0	51.5		ug/L		103	33 - 184
Bis(2-chloroethyl)ether	50.0	49.0		ug/L		98	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	59.1		ug/L		118	10 - 158
Butylbenzylphthalate	50.0	48.1		ug/L		96	10 - 152
Carbazole	50.0	54.7		ug/L		109	67 - 121
Chrysene	50.0	56.0		ug/L		112	17 - 168
Dibenz(a,h)anthracene	50.0	55.6		ug/L		111	10 - 200
Dibenzofuran	50.0	53.9	*+	ug/L		108	64 - 106
Diethylphthalate	50.0	47.9		ug/L		96	10 - 120
Dimethylphthalate	50.0	35.0		ug/L		70	10 - 120
Di-n-butyl phthalate	50.0	53.5		ug/L		107	10 - 120
Di-n-octyl phthalate	50.0	63.4		ug/L		127	10 - 146
Diphenyl ether	50.0	52.7		ug/L		105	59 - 105
Fluoranthene	50.0	53.6		ug/L		107	26 - 137
Fluorene	50.0	55.4		ug/L		111	59 - 121
Hexachlorobenzene	50.0	52.6		ug/L		105	10 - 152
Hexachlorobutadiene	50.0	39.3		ug/L		79	24 - 120
Hexachlorocyclopentadiene	50.0	20.1		ug/L		40	10 - 67
Hexachloroethane	50.0	40.7		ug/L		81	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	55.4		ug/L		111	10 - 171
Isophorone	50.0	52.4		ug/L		105	21 - 196
Naphthalene	50.0	48.2		ug/L		96	21 - 133
n-Decane	50.0	35.7		ug/L		71	16 - 110
n-Docosane	50.0	70.0		ug/L		140	53 - 177
n-Eicosane	50.0	66.5		ug/L		133	62 - 154

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-317595/2-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
n-Hexadecane	50.0	53.8		ug/L		108	43 - 133
Nitrobenzene	50.0	48.4		ug/L		97	35 - 180
N-Nitrosodimethylamine	50.0	33.8		ug/L		68	38 - 74
N-Nitrosodi-n-propylamine	50.0	51.3		ug/L		103	10 - 200
N-Nitrosodiphenylamine	42.5	48.4		ug/L		114	70 - 121
n-Octadecane	50.0	57.6		ug/L		115	55 - 138
n-Tetradecane	50.0	48.2		ug/L		96	26 - 140
Pentachlorophenol	100	117		ug/L		117	14 - 176
Phenanthrene	50.0	55.0		ug/L		110	54 - 120
Phenol	50.0	28.0		ug/L		56	10 - 120
Pyrene	50.0	59.1		ug/L		118	52 - 120
Pyridine	100	57.3		ug/L		57	18 - 72

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*89*		*10 - 150*
2-Fluorobiphenyl (Surr)	*89*		*32 - 115*
2-Fluorophenol (Surr)	*61*		*10 - 83*
Nitrobenzene-d5 (Surr)	*86*		*41 - 111*
Phenol-d5 (Surr)	*45*		*10 - 59*
p-Terphenyl-d14 (Surr)	*111*		*37 - 140*

Lab Sample ID: LCS 410-317595/4-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodiethylamine	50.0	44.6		ug/L		89	68 - 107
N-Nitrosodi-n-butylamine	50.0	47.6		ug/L		95	57 - 101
N-Nitrosopyrrolidine	50.0	44.2		ug/L		88	61 - 103
o-Toluidine	50.0	36.3		ug/L		73	50 - 97
Pentachlorobenzene	50.0	42.9		ug/L		86	31 - 116

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*86*		*10 - 150*
2-Fluorobiphenyl (Surr)	*85*		*32 - 115*
2-Fluorophenol (Surr)	*58*		*10 - 83*
Nitrobenzene-d5 (Surr)	*86*		*41 - 111*
Phenol-d5 (Surr)	*40*		*10 - 59*
p-Terphenyl-d14 (Surr)	*100*		*37 - 140*

Lab Sample ID: LCSD 410-317595/3-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317595

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	50.0	47.3		ug/L		95	58 - 111	11	30
1,2,4,5-Tetrachlorobenzene	50.0	43.4		ug/L		87	36 - 106	10	30
1,2,4-Trichlorobenzene	50.0	42.7		ug/L		85	44 - 142	7	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-317595/3-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317595

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	40.0		ug/L		80	36 - 95	11	30
1,2-Diphenylhydrazine	50.0	50.6		ug/L		101	57 - 127	12	30
1,3-Dichlorobenzene	50.0	39.7		ug/L		79	32 - 95	11	30
1,4-Dichlorobenzene	50.0	39.0		ug/L		78	33 - 92	10	30
1,4-Dioxane	50.0	23.8		ug/L		48	30 - 60	12	30
1-Methylnaphthalene	50.0	46.2		ug/L		92	53 - 105	7	30
1-Methylphenanthrene	50.0	47.2		ug/L		94	70 - 114	14	30
2,2'-oxybis[1-chloropropane]	50.0	45.4		ug/L		91	48 - 110	8	30
2,3,4,6-Tetrachlorophenol	50.0	49.2		ug/L		98	61 - 117	2	30
2,3-Dichloroaniline	50.0	46.7		ug/L		93	59 - 116	9	30
2,4,5-Trichlorophenol	50.0	56.2		ug/L		112	67 - 122	4	30
2,4,6-Trichlorophenol	50.0	57.7		ug/L		115	37 - 144	4	30
2,4-Dichlorophenol	50.0	56.0		ug/L		112	39 - 135	0	30
2,4-Dimethylphenol	50.0	51.2		ug/L		102	32 - 120	2	30
2,4-Dinitrophenol	100	122		ug/L		122	10 - 191	18	30
2,4-Dinitrotoluene	50.0	55.1		ug/L		110	39 - 139	4	30
2,6-Dichlorophenol	50.0	55.5		ug/L		111	72 - 113	2	30
2,6-Dinitrotoluene	50.0	52.8		ug/L		106	50 - 158	5	30
2-Chloronaphthalene	50.0	44.8		ug/L		90	60 - 120	9	24
2-Chlorophenol	50.0	46.3		ug/L		93	23 - 134	5	30
2-Methylnaphthalene	50.0	46.1		ug/L		92	44 - 111	6	30
2-Methylphenol	50.0	44.1		ug/L		88	52 - 105	8	30
2-Nitroaniline	50.0	53.1		ug/L		106	60 - 125	6	30
2-Nitrophenol	50.0	52.2		ug/L		104	29 - 182	1	30
3,3'-Dichlorobenzidine	100	68.6		ug/L		69	10 - 200	12	30
3-Nitroaniline	50.0	44.7		ug/L		89	58 - 114	3	30
4,6-Dinitro-2-methylphenol	100	113		ug/L		113	10 - 181	2	30
4-Bromophenyl-phenylether	50.0	49.4		ug/L		99	53 - 127	13	30
4-Chloro-3-methylphenol	50.0	51.4		ug/L		103	22 - 147	2	30
4-Chloroaniline	50.0	31.8		ug/L		64	39 - 104	6	30
4-Chlorophenyl-phenylether	50.0	47.9		ug/L		96	25 - 158	12	30
4-Methylphenol	50.0	43.7		ug/L		87	47 - 96	4	30
4-Nitroaniline	50.0	54.2		ug/L		108	59 - 111	6	30
4-Nitrophenol	100	64.1		ug/L		64	10 - 132	9	30
Acenaphthene	50.0	47.9		ug/L		96	47 - 145	10	30
Acenaphthylene	50.0	48.5		ug/L		97	33 - 145	9	30
Acetophenone	50.0	45.9		ug/L		92	56 - 108	8	30
Aniline	50.0	26.7		ug/L		53	26 - 95	13	30
Anthracene	50.0	48.9		ug/L		98	27 - 133	13	30
a-Terpineol	50.0	51.5		ug/L		103	65 - 117	5	30
Benzidine	100	18.2	J	ug/L		18	10 - 72	5	30
Benzo[a]anthracene	50.0	49.3		ug/L		99	33 - 143	12	30
Benzo[a]pyrene	50.0	49.2		ug/L		98	17 - 163	9	30
Benzo[b]fluoranthene	50.0	46.9		ug/L		94	24 - 159	10	30
Benzo[g,h,i]perylene	50.0	47.6		ug/L		95	10 - 200	14	30
Benzo[k]fluoranthene	50.0	50.1		ug/L		100	11 - 162	15	30
Benzoic acid	50.0	17.8	J	ug/L		36	10 - 96	14	30
Benzyl alcohol	50.0	51.4		ug/L		103	38 - 104	16	30
Bis(2-chloroethoxy)methane	50.0	48.2		ug/L		96	33 - 184	7	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-317595/3-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether			50.0	44.9		ug/L		90	12 - 158	9	30
Bis(2-ethylhexyl) phthalate			50.0	51.6		ug/L		103	10 - 158	13	30
Butylbenzylphthalate			50.0	45.5		ug/L		91	10 - 152	5	30
Carbazole			50.0	49.1		ug/L		98	67 - 121	11	30
Chrysene			50.0	49.9		ug/L		100	17 - 168	12	30
Dibenz(a,h)anthracene			50.0	47.8		ug/L		96	10 - 200	15	30
Dibenzofuran			50.0	48.5		ug/L		97	64 - 106	11	30
Diethylphthalate			50.0	46.2		ug/L		92	10 - 120	4	30
Dimethylphthalate			50.0	36.8		ug/L		74	10 - 120	5	30
Di-n-butyl phthalate			50.0	49.3		ug/L		99	10 - 120	8	30
Di-n-octyl phthalate			50.0	55.0		ug/L		110	10 - 146	14	30
Diphenyl ether			50.0	46.9		ug/L		94	59 - 105	12	30
Fluoranthene			50.0	49.0		ug/L		98	26 - 137	9	30
Fluorene			50.0	50.0		ug/L		100	59 - 121	10	30
Hexachlorobenzene			50.0	47.6		ug/L		95	10 - 152	10	30
Hexachlorobutadiene			50.0	36.3		ug/L		73	24 - 120	8	30
Hexachlorocyclopentadiene			50.0	18.6		ug/L		37	10 - 67	8	30
Hexachloroethane			50.0	35.7		ug/L		71	40 - 120	13	30
Indeno[1,2,3-cd]pyrene			50.0	49.4		ug/L		99	10 - 171	11	30
Isophorone			50.0	49.8		ug/L		100	21 - 196	5	30
Naphthalene			50.0	44.6		ug/L		89	21 - 133	8	30
n-Decane			50.0	33.1		ug/L		66	16 - 110	8	30
n-Docosane			50.0	60.1		ug/L		120	53 - 177	15	30
n-Eicosane			50.0	56.2		ug/L		112	62 - 154	17	30
n-Hexadecane			50.0	46.4		ug/L		93	43 - 133	15	30
Nitrobenzene			50.0	46.0		ug/L		92	35 - 180	5	30
N-Nitrosodimethylamine			50.0	28.6		ug/L		57	38 - 74	17	30
N-Nitrosodi-n-propylamine			50.0	48.0		ug/L		96	10 - 200	7	30
N-Nitrosodiphenylamine			42.5	41.5		ug/L		98	70 - 121	15	30
n-Octadecane			50.0	48.1		ug/L		96	55 - 138	18	30
n-Tetradecane			50.0	41.4		ug/L		83	26 - 140	15	30
Pentachlorophenol			100	123		ug/L		123	14 - 176	5	30
Phenanthrene			50.0	48.1		ug/L		96	54 - 120	13	30
Phenol			50.0	25.3		ug/L		51	10 - 120	10	30
Pyrene			50.0	51.6		ug/L		103	52 - 120	14	30
Pyridine			100	46.2		ug/L		46	18 - 72	22	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*90*		*10 - 150*
2-Fluorobiphenyl (Surr)	*80*		*32 - 115*
2-Fluorophenol (Surr)	*56*		*10 - 83*
Nitrobenzene-d5 (Surr)	*81*		*41 - 111*
Phenol-d5 (Surr)	*40*		*10 - 59*
p-Terphenyl-d14 (Surr)	*99*		*37 - 140*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-317595/5-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodiethylamine			50.0	44.0		ug/L		88	68 - 107	1	30
N-Nitrosodi-n-butylamine			50.0	48.1		ug/L		96	57 - 101	1	30
N-Nitrosopyrrolidine			50.0	45.3		ug/L		91	61 - 103	3	30
o-Toluidine			50.0	39.8		ug/L		80	50 - 97	9	30
Pentachlorobenzene			50.0	44.6		ug/L		89	31 - 116	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*87*		*10 - 150*
2-Fluorobiphenyl (Surr)	*87*		*32 - 115*
2-Fluorophenol (Surr)	*56*		*10 - 83*
Nitrobenzene-d5 (Surr)	*88*		*41 - 111*
Phenol-d5 (Surr)	*39*		*10 - 59*
p-Terphenyl-d14 (Surr)	*98*		*37 - 140*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-315663/1-A
Matrix: Water
Analysis Batch: 315570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		11/09/22 11:15	11/09/22 17:43	1
Ethene (1C)	ND		5.0	1.0	ug/L		11/09/22 11:15	11/09/22 17:43	1
Methane (1C)	ND		5.0	3.0	ug/L		11/09/22 11:15	11/09/22 17:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*105*		*43 - 133*	*11/09/22 11:15*	*11/09/22 17:43*	*1*

Lab Sample ID: LCS 410-315663/2-A
Matrix: Water
Analysis Batch: 315570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315663

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane (1C)			61.7	65.0		ug/L		105	85 - 115
Ethene (1C)			58.3	61.0		ug/L		105	83 - 115
Methane (1C)			59.8	65.0		ug/L		109	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*105*		*43 - 133*

Lab Sample ID: LCSD 410-315663/3-A
Matrix: Water
Analysis Batch: 315570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 315663

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)			61.7	63.5		ug/L		103	85 - 115	2	20
Ethene (1C)			58.3	59.5		ug/L		102	83 - 115	2	20
Methane (1C)			59.8	63.9		ug/L		107	85 - 115	2	20

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Propene (1C)	101		43 - 133

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-316940/5
Matrix: Water
Analysis Batch: 316940

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			11/12/22 06:03	1
Chloride	ND		1.5	0.60	mg/L			11/12/22 06:03	1

Lab Sample ID: LCS 410-316940/3
Matrix: Water
Analysis Batch: 316940

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	7.33		mg/L		98	90 - 110
Chloride	3.00	3.02		mg/L		101	90 - 110

Lab Sample ID: LCSD 410-316940/4
Matrix: Water
Analysis Batch: 316940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	7.32		mg/L		98	90 - 110	0	20
Chloride	3.00	3.02		mg/L		101	90 - 110	0	20

Lab Sample ID: MB 410-317335/5
Matrix: Water
Analysis Batch: 317335

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			11/14/22 10:28	1
Chloride	ND		1.5	0.60	mg/L			11/14/22 10:28	1

Lab Sample ID: LCS 410-317335/3
Matrix: Water
Analysis Batch: 317335

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	7.61		mg/L		101	90 - 110
Chloride	3.00	3.06		mg/L		102	90 - 110

Lab Sample ID: LCSD 410-317335/4
Matrix: Water
Analysis Batch: 317335

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	7.53		mg/L		100	90 - 110	1	20
Chloride	3.00	3.04		mg/L		101	90 - 110	1	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-315963/1-A
Matrix: Water
Analysis Batch: 317788

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 315963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		11/10/22 06:10	11/15/22 10:41	1
Aluminum	ND		30	12	ug/L		11/10/22 06:10	11/15/22 10:41	1
Arsenic	ND		2.0	0.68	ug/L		11/10/22 06:10	11/15/22 10:41	1
Barium	ND		2.0	0.75	ug/L		11/10/22 06:10	11/15/22 10:41	1
Beryllium	ND		0.50	0.12	ug/L		11/10/22 06:10	11/15/22 10:41	1
Cadmium	ND		0.50	0.15	ug/L		11/10/22 06:10	11/15/22 10:41	1
Calcium	ND		120	50	ug/L		11/10/22 06:10	11/15/22 10:41	1
Chromium	ND		2.0	0.33	ug/L		11/10/22 06:10	11/15/22 10:41	1
Cobalt	ND		0.50	0.16	ug/L		11/10/22 06:10	11/15/22 10:41	1
Copper	ND		1.0	0.36	ug/L		11/10/22 06:10	11/15/22 10:41	1
Iron	ND		50	20	ug/L		11/10/22 06:10	11/15/22 10:41	1
Lead	ND		0.50	0.071	ug/L		11/10/22 06:10	11/15/22 10:41	1
Magnesium	17.6	J	50	16	ug/L		11/10/22 06:10	11/15/22 10:41	1
Manganese	ND		2.0	0.95	ug/L		11/10/22 06:10	11/15/22 10:41	1
Nickel	ND		1.0	0.40	ug/L		11/10/22 06:10	11/15/22 10:41	1
Potassium	ND		200	65	ug/L		11/10/22 06:10	11/15/22 10:41	1
Selenium	ND		1.0	0.28	ug/L		11/10/22 06:10	11/15/22 10:41	1
Silver	ND		0.50	0.10	ug/L		11/10/22 06:10	11/15/22 10:41	1
Sodium	123	J	200	90	ug/L		11/10/22 06:10	11/15/22 10:41	1
Thallium	ND		0.50	0.13	ug/L		11/10/22 06:10	11/15/22 10:41	1
Vanadium	ND		4.0	0.79	ug/L		11/10/22 06:10	11/15/22 10:41	1
Zinc	ND		10	4.0	ug/L		11/10/22 06:10	11/15/22 10:41	1

Lab Sample ID: LCS 410-315963/2-A
Matrix: Water
Analysis Batch: 317788

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 315963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	102		ug/L		102	85 - 115
Aluminum	5000	4980		ug/L		100	85 - 115
Arsenic	500	496		ug/L		99	85 - 115
Barium	500	512		ug/L		102	85 - 115
Beryllium	50.0	49.4		ug/L		99	85 - 115
Cadmium	50.0	50.6		ug/L		101	85 - 115
Calcium	5000	5060		ug/L		101	85 - 115
Chromium	500	516		ug/L		103	85 - 115
Cobalt	500	491		ug/L		98	85 - 115
Copper	500	507		ug/L		101	85 - 115
Iron	5000	5120		ug/L		102	85 - 115
Lead	50.0	51.1		ug/L		102	85 - 115
Magnesium	5000	4970		ug/L		99	85 - 115
Manganese	500	507		ug/L		101	85 - 115
Nickel	500	513		ug/L		103	85 - 115
Potassium	5000	4990		ug/L		100	85 - 115
Selenium	100	102		ug/L		102	85 - 115
Silver	50.0	50.2		ug/L		100	85 - 115
Sodium	5000	4890		ug/L		98	85 - 115
Thallium	100	102		ug/L		102	85 - 115
Vanadium	500	507		ug/L		101	85 - 115

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-315963/2-A
Matrix: Water
Analysis Batch: 317788

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 315963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	500	511		ug/L		102	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-316539/1-A
Matrix: Water
Analysis Batch: 316841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/11/22 08:04	11/11/22 17:37	1

Lab Sample ID: LCS 410-316539/2-A
Matrix: Water
Analysis Batch: 316841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.00112		mg/L		112	85 - 115

Lab Sample ID: MB 410-316542/1-A
Matrix: Water
Analysis Batch: 316841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316542

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/11/22 08:07	11/11/22 18:10	1

Lab Sample ID: LCS 410-316542/2-A
Matrix: Water
Analysis Batch: 316841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.00104		mg/L		104	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-315924/1
Matrix: Water
Analysis Batch: 315924

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			11/09/22 20:57	1

Lab Sample ID: LCS 410-315924/2
Matrix: Water
Analysis Batch: 315924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil & Grease)	40.0	32.50		mg/L		81	78 - 114

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCSD 410-315924/3
Matrix: Water
Analysis Batch: 315924

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM (Oil & Grease)			40.0	32.90		mg/L		82	78 - 114	1	13

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-315877/3
Matrix: Water
Analysis Batch: 315877

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			11/09/22 18:05	1

Lab Sample ID: LCS 410-315877/4
Matrix: Water
Analysis Batch: 315877

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Turbidity			10.0	9.8		NTU		98	90 - 104		

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-316229/5
Matrix: Water
Analysis Batch: 316229

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			11/09/22 21:22	1

Lab Sample ID: LCS 410-316229/8
Matrix: Water
Analysis Batch: 316229

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			189	176		mg/L		93	82 - 106		

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-316445/32
Matrix: Water
Analysis Batch: 316445

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			11/10/22 12:58	1

Lab Sample ID: LCS 410-316445/34
Matrix: Water
Analysis Batch: 316445

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Hardness			40.0	39.9		mg/L		100	91 - 108		

Method: 2340C-2011 - Hardness, Total (Continued)

Lab Sample ID: 410-104888-1 MS
Matrix: Groundwater
Analysis Batch: 316445

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Hardness	950	F1	400	1260	F1	mg/L		79	91 - 108

Lab Sample ID: 410-104888-1 DU
Matrix: Groundwater
Analysis Batch: 316445

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Hardness	950	F1	753	F3	mg/L		23	7

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-316230/5
Matrix: Water
Analysis Batch: 316230

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			11/09/22 21:22	1

Lab Sample ID: LCS 410-316230/6
Matrix: Water
Analysis Batch: 316230

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1420		umhos/cm		100	97 - 103

Method: 2540C - 2015 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-315496/1
Matrix: Water
Analysis Batch: 315496

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			11/09/22 06:24	1

Lab Sample ID: LCS 410-315496/2
Matrix: Water
Analysis Batch: 315496

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	194		mg/L		97	72 - 127

Lab Sample ID: MB 410-315661/1
Matrix: Water
Analysis Batch: 315661

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			11/09/22 11:05	1

Method: 2540C - 2015 - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 410-315661/2
Matrix: Water
Analysis Batch: 315661

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	212		mg/L		106	72 - 127

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-316281/1
Matrix: Water
Analysis Batch: 316281

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.0	1.0	mg/L			11/10/22 15:08	1

Lab Sample ID: LCS 410-316281/2
Matrix: Water
Analysis Batch: 316281

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	145		mg/L		96	89 - 105

Method: 2540F-2015 - Solids, Settleable

Lab Sample ID: MB 410-315761/1
Matrix: Water
Analysis Batch: 315761

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			11/09/22 14:06	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-316133/2-A
Matrix: Water
Analysis Batch: 317411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		11/10/22 10:15	11/14/22 09:48	1

Lab Sample ID: LCS 410-316133/1-A
Matrix: Water
Analysis Batch: 317411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	3.96	4.21		mg/L		106	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-316120/2-A
Matrix: Water
Analysis Batch: 316656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		11/10/22 09:51	11/11/22 08:43	1

Method: 365.1 - Phosphorus, Total

Lab Sample ID: LCS 410-316120/1-A
Matrix: Water
Analysis Batch: 316656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as PO4	4.07	3.99		mg/L		98	90 - 110

Lab Sample ID: 410-104888-1 DU
Matrix: Groundwater
Analysis Batch: 316656

Client Sample ID: Outfall-01A
Prep Type: Total/NA
Prep Batch: 316120

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Phosphorus as PO4	0.51		0.538	F5	mg/L		5	4

Method: 410.4 - COD

Lab Sample ID: MB 410-315982/4
Matrix: Water
Analysis Batch: 315982

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			11/10/22 06:20	1

Lab Sample ID: LCS 410-315982/5
Matrix: Water
Analysis Batch: 315982

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	500	507		mg/L		101	94 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-316249/25
Matrix: Water
Analysis Batch: 316249

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/10/22 07:32	1

Lab Sample ID: MB 410-316249/58
Matrix: Water
Analysis Batch: 316249

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/10/22 09:11	1

Lab Sample ID: LCS 410-316249/56
Matrix: Water
Analysis Batch: 316249

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.258		mg/L		103	90 - 110

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 410-316249/57
Matrix: Water
Analysis Batch: 316249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total			0.250	0.260		mg/L		104	90 - 110	1	6

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-316231/7
Matrix: Water
Analysis Batch: 316231

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		S.U.		100	95 - 105		

Method: 5210 B-2011 - BOD, 5-Day

Lab Sample ID: SCB 410-318220/4
Matrix: Water
Analysis Batch: 318220

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.846		0.0000010	0.0000010	mg/L			11/09/22 13:20	1

Lab Sample ID: USB 410-318220/2
Matrix: Water
Analysis Batch: 318220

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		0.0000010	0.0000010	mg/L			11/09/22 13:20	1

Lab Sample ID: LCS 410-318220/27
Matrix: Water
Analysis Batch: 318220

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	182		mg/L		92	85 - 115		

GC/MS VOA

Analysis Batch: 315728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	624.1	
410-104888-2	Outfall-001	Total/NA	Groundwater	624.1	
410-104888-3	QAQC_TB	Total/NA	Water	624.1	
MB 410-315728/5	Method Blank	Total/NA	Water	624.1	
LCS 410-315728/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-315728/1004	Lab Control Sample	Total/NA	Water	624.1	
410-104888-1 MS	Outfall-01A	Total/NA	Groundwater	624.1	
410-104888-1 MSD	Outfall-01A	Total/NA	Groundwater	624.1	

Analysis Batch: 317546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	8260D	
410-104888-2	Outfall-001	Total/NA	Groundwater	8260D	
410-104888-3	QAQC_TB	Total/NA	Water	8260D	
MB 410-317546/6	Method Blank	Total/NA	Water	8260D	
LCS 410-317546/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 317595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	625.1	
410-104888-2	Outfall-001	Total/NA	Groundwater	625.1	
MB 410-317595/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-317595/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCS 410-317595/4-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-317595/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
LCSD 410-317595/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 317855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	625.1	317595
410-104888-2	Outfall-001	Total/NA	Groundwater	625.1	317595
MB 410-317595/1-A	Method Blank	Total/NA	Water	625.1	317595
LCS 410-317595/2-A	Lab Control Sample	Total/NA	Water	625.1	317595
LCS 410-317595/4-A	Lab Control Sample	Total/NA	Water	625.1	317595
LCSD 410-317595/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	317595
LCSD 410-317595/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	317595

GC VOA

Analysis Batch: 315570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	RSK-175	315663
410-104888-2	Outfall-001	Total/NA	Groundwater	RSK-175	315663
MB 410-315663/1-A	Method Blank	Total/NA	Water	RSK-175	315663
LCS 410-315663/2-A	Lab Control Sample	Total/NA	Water	RSK-175	315663
LCSD 410-315663/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	315663

Prep Batch: 315663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	RSK-175	

GC VOA (Continued)

Prep Batch: 315663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-2	Outfall-001	Total/NA	Groundwater	RSK-175	
MB 410-315663/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-315663/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-315663/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 316940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	EPA 300.0 R2.1	
410-104888-2	Outfall-001	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-316940/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-316940/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-316940/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 317335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	EPA 300.0 R2.1	
410-104888-2	Outfall-001	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-317335/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-317335/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-317335/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 315963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total Recoverable	Groundwater	200.8 Rev 5.4	
410-104888-2	Outfall-001	Total Recoverable	Groundwater	200.8 Rev 5.4	
MB 410-315963/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-315963/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Prep Batch: 316539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	245.1	
MB 410-316539/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-316539/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 316542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-2	Outfall-001	Total/NA	Groundwater	245.1	
MB 410-316542/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-316542/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 316841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	245.1	316539
410-104888-2	Outfall-001	Total/NA	Groundwater	245.1	316542
MB 410-316539/1-A	Method Blank	Total/NA	Water	245.1	316539
MB 410-316542/1-A	Method Blank	Total/NA	Water	245.1	316542
LCS 410-316539/2-A	Lab Control Sample	Total/NA	Water	245.1	316539
LCS 410-316542/2-A	Lab Control Sample	Total/NA	Water	245.1	316542

Metals

Analysis Batch: 317788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total Recoverable	Groundwater	200.8 Rev 5.4	315963
410-104888-2	Outfall-001	Total Recoverable	Groundwater	200.8 Rev 5.4	315963
MB 410-315963/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	315963
LCS 410-315963/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	315963

Analysis Batch: 318881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total Recoverable	Groundwater	200.8 Rev 5.4	315963
410-104888-2	Outfall-001	Total Recoverable	Groundwater	200.8 Rev 5.4	315963

General Chemistry

Analysis Batch: 314463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	SM 2330B	
410-104888-2	Outfall-001	Total/NA	Groundwater	SM 2330B	

Analysis Batch: 315496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	2540C - 2015	
MB 410-315496/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-315496/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 315661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-2	Outfall-001	Total/NA	Groundwater	2540C - 2015	
MB 410-315661/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-315661/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 315724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	353.2	
410-104888-2	Outfall-001	Total/NA	Groundwater	353.2	

Analysis Batch: 315761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	2540F-2015	
410-104888-2	Outfall-001	Total/NA	Groundwater	2540F-2015	
MB 410-315761/1	Method Blank	Total/NA	Water	2540F-2015	

Analysis Batch: 315877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	180.1	
410-104888-2	Outfall-001	Total/NA	Groundwater	180.1	
MB 410-315877/3	Method Blank	Total/NA	Water	180.1	
LCS 410-315877/4	Lab Control Sample	Total/NA	Water	180.1	

Analysis Batch: 315924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	1664A	
410-104888-2	Outfall-001	Total/NA	Groundwater	1664A	

General Chemistry (Continued)

Analysis Batch: 315924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-315924/1	Method Blank	Total/NA	Water	1664A	
LCS 410-315924/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-315924/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 315982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	410.4	
410-104888-2	Outfall-001	Total/NA	Groundwater	410.4	
MB 410-315982/4	Method Blank	Total/NA	Water	410.4	
LCS 410-315982/5	Lab Control Sample	Total/NA	Water	410.4	

Prep Batch: 316120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	365.1	
410-104888-2	Outfall-001	Total/NA	Groundwater	365.1	
MB 410-316120/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-316120/1-A	Lab Control Sample	Total/NA	Water	365.1	
410-104888-1 DU	Outfall-01A	Total/NA	Groundwater	365.1	

Prep Batch: 316133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	351.2	
410-104888-2	Outfall-001	Total/NA	Groundwater	351.2	
MB 410-316133/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-316133/1-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 316229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	2320B-2011	
410-104888-2	Outfall-001	Total/NA	Groundwater	2320B-2011	
MB 410-316229/5	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-316229/8	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 316230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	2510B-2011	
410-104888-2	Outfall-001	Total/NA	Groundwater	2510B-2011	
MB 410-316230/5	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-316230/6	Lab Control Sample	Total/NA	Water	2510B-2011	

Analysis Batch: 316231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	4500 H+ B-2011	
410-104888-2	Outfall-001	Total/NA	Groundwater	4500 H+ B-2011	
LCS 410-316231/7	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 316249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	420.4	
410-104888-2	Outfall-001	Total/NA	Groundwater	420.4	
MB 410-316249/25	Method Blank	Total/NA	Water	420.4	

General Chemistry (Continued)

Analysis Batch: 316249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-316249/58	Method Blank	Total/NA	Water	420.4	
LCS 410-316249/56	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-316249/57	Lab Control Sample Dup	Total/NA	Water	420.4	

Analysis Batch: 316281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	2540D-2015	
410-104888-2	Outfall-001	Total/NA	Groundwater	2540D-2015	
MB 410-316281/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-316281/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 316445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	2340C-2011	
410-104888-2	Outfall-001	Total/NA	Groundwater	2340C-2011	
MB 410-316445/32	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-316445/34	Lab Control Sample	Total/NA	Water	2340C-2011	
410-104888-1 MS	Outfall-01A	Total/NA	Groundwater	2340C-2011	
410-104888-1 DU	Outfall-01A	Total/NA	Groundwater	2340C-2011	

Analysis Batch: 316656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	365.1	316120
410-104888-2	Outfall-001	Total/NA	Groundwater	365.1	316120
MB 410-316120/2-A	Method Blank	Total/NA	Water	365.1	316120
LCS 410-316120/1-A	Lab Control Sample	Total/NA	Water	365.1	316120
410-104888-1 DU	Outfall-01A	Total/NA	Groundwater	365.1	316120

Analysis Batch: 317411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	351.2	316133
410-104888-2	Outfall-001	Total/NA	Groundwater	351.2	316133
MB 410-316133/2-A	Method Blank	Total/NA	Water	351.2	316133
LCS 410-316133/1-A	Lab Control Sample	Total/NA	Water	351.2	316133

Analysis Batch: 318220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104888-1	Outfall-01A	Total/NA	Groundwater	5210 B-2011	
410-104888-2	Outfall-001	Total/NA	Groundwater	5210 B-2011	
SCB 410-318220/4	Method Blank	Total/NA	Water	5210 B-2011	
USB 410-318220/2	Method Blank	Total/NA	Water	5210 B-2011	
LCS 410-318220/27	Lab Control Sample	Total/NA	Water	5210 B-2011	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: Outfall-01A

Lab Sample ID: 410-104888-1

Date Collected: 11/08/22 09:40

Matrix: Groundwater

Date Received: 11/08/22 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	315728	UJML	ELLE	11/09/22 14:50
Total/NA	Analysis	8260D		1	317546	USEJ	ELLE	11/15/22 12:25
Total/NA	Prep	625.1			317595	YDF5	ELLE	11/15/22 08:17
Total/NA	Analysis	625.1		1	317855	SJ89	ELLE	11/15/22 21:21
Total/NA	Prep	RSK-175			315663	MB4Z	ELLE	11/09/22 11:15
Total/NA	Analysis	RSK-175		1	315570	LXF2	ELLE	11/09/22 19:14
Total/NA	Analysis	EPA 300.0 R2.1		500	317335	L4QM	ELLE	11/14/22 14:59
Total/NA	Analysis	EPA 300.0 R2.1		50	316940	L4QM	ELLE	11/12/22 16:46
Total Recoverable	Prep	200.8 Rev 5.4			315963	UAMX	ELLE	11/10/22 06:10
Total Recoverable	Analysis	200.8 Rev 5.4		10	318881	UCIG	ELLE	11/17/22 20:57
Total Recoverable	Prep	200.8 Rev 5.4			315963	UAMX	ELLE	11/10/22 06:10
Total Recoverable	Analysis	200.8 Rev 5.4		1	317788	F7JF	ELLE	11/15/22 11:01
Total/NA	Prep	245.1			316539	UAMX	ELLE	11/11/22 08:04
Total/NA	Analysis	245.1		1	316841	UEFS	ELLE	11/11/22 18:08
Total/NA	Analysis	1664A		1	315924	QT6L	ELLE	11/09/22 20:57
Total/NA	Analysis	180.1		1	315877	UDS7	ELLE	11/09/22 18:05
Total/NA	Analysis	2320B-2011		1	316229	DI9Q	ELLE	11/09/22 23:54
Total/NA	Analysis	2340C-2011		10	316445	USAE	ELLE	11/10/22 13:19
Total/NA	Analysis	2510B-2011		1	316230	DI9Q	ELLE	11/09/22 23:54
Total/NA	Analysis	2540C - 2015		1	315496	M98K	ELLE	11/09/22 06:24
Total/NA	Analysis	2540D-2015		1	316281	UOCA	ELLE	11/10/22 15:08
Total/NA	Analysis	2540F-2015		1	315761	DI9Q	ELLE	11/09/22 14:06
Total/NA	Prep	351.2			316133	UNWS	ELLE	11/10/22 10:15 - 11/10/22 13:15 [1]
Total/NA	Analysis	351.2		1	317411	JCG7	ELLE	11/14/22 10:25
Total/NA	Analysis	353.2		1	315724	UKJF	ELLE	11/09/22 12:36
Total/NA	Prep	365.1			316120	CBM8	ELLE	11/10/22 09:51
Total/NA	Analysis	365.1		1	316656	CBM8	ELLE	11/11/22 08:43
Total/NA	Analysis	410.4		1	315982	USAE	ELLE	11/10/22 06:20
Total/NA	Analysis	420.4		1	316249	CBM8	ELLE	11/10/22 09:38
Total/NA	Analysis	4500 H+ B-2011		1	316231	DI9Q	ELLE	11/09/22 23:54
Total/NA	Analysis	5210 B-2011		1	318220	TI24	ELLE	11/09/22 18:33
Total/NA	Analysis	SM 2330B		1	314463	USJM	ELLE	11/13/22 12:38

Client Sample ID: Outfall-001

Lab Sample ID: 410-104888-2

Date Collected: 11/08/22 10:05

Matrix: Groundwater

Date Received: 11/08/22 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	315728	UJML	ELLE	11/09/22 15:13
Total/NA	Analysis	8260D		1	317546	USEJ	ELLE	11/15/22 12:45
Total/NA	Prep	625.1			317595	YDF5	ELLE	11/15/22 08:17
Total/NA	Analysis	625.1		1	317855	SJ89	ELLE	11/15/22 21:42

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104888-1

Client Sample ID: Outfall-001

Lab Sample ID: 410-104888-2

Date Collected: 11/08/22 10:05
Matrix: Groundwater
Date Received: 11/08/22 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			315663	MB4Z	ELLE	11/09/22 11:15
Total/NA	Analysis	RSK-175		1	315570	LXF2	ELLE	11/09/22 19:32
Total/NA	Analysis	EPA 300.0 R2.1		500	317335	L4QM	ELLE	11/14/22 17:08
Total/NA	Analysis	EPA 300.0 R2.1		50	316940	L4QM	ELLE	11/12/22 16:24
Total Recoverable	Prep	200.8 Rev 5.4			315963	UAMX	ELLE	11/10/22 06:10
Total Recoverable	Analysis	200.8 Rev 5.4		10	318881	UCIG	ELLE	11/17/22 21:09
Total Recoverable	Prep	200.8 Rev 5.4			315963	UAMX	ELLE	11/10/22 06:10
Total Recoverable	Analysis	200.8 Rev 5.4		1	317788	F7JF	ELLE	11/15/22 11:14
Total/NA	Prep	245.1			316542	UAMX	ELLE	11/11/22 08:07
Total/NA	Analysis	245.1		1	316841	UEFS	ELLE	11/11/22 18:31
Total/NA	Analysis	1664A		1	315924	QT6L	ELLE	11/09/22 20:57
Total/NA	Analysis	180.1		1	315877	UDS7	ELLE	11/09/22 18:05
Total/NA	Analysis	2320B-2011		1	316229	DI9Q	ELLE	11/09/22 23:59
Total/NA	Analysis	2340C-2011		10	316445	USAE	ELLE	11/10/22 13:40
Total/NA	Analysis	2510B-2011		1	316230	DI9Q	ELLE	11/09/22 23:59
Total/NA	Analysis	2540C - 2015		1	315661	M98K	ELLE	11/09/22 11:05
Total/NA	Analysis	2540D-2015		1	316281	UOCA	ELLE	11/10/22 15:08
Total/NA	Analysis	2540F-2015		1	315761	DI9Q	ELLE	11/09/22 14:06
Total/NA	Prep	351.2			316133	UNWS	ELLE	11/10/22 10:15 - 11/10/22 13:15 [1]
Total/NA	Analysis	351.2		1	317411	JCG7	ELLE	11/14/22 10:28
Total/NA	Analysis	353.2		1	315724	UKJF	ELLE	11/09/22 12:36
Total/NA	Prep	365.1			316120	CBM8	ELLE	11/10/22 09:51
Total/NA	Analysis	365.1		1	316656	CBM8	ELLE	11/11/22 08:44
Total/NA	Analysis	410.4		1	315982	USAE	ELLE	11/10/22 06:20
Total/NA	Analysis	420.4		1	316249	CBM8	ELLE	11/10/22 09:41
Total/NA	Analysis	4500 H+ B-2011		1	316231	DI9Q	ELLE	11/09/22 23:59
Total/NA	Analysis	5210 B-2011		1	318220	TI24	ELLE	11/09/22 18:33
Total/NA	Analysis	SM 2330B		1	314463	USJM	ELLE	11/13/22 12:38

Client Sample ID: QAQC_TB

Lab Sample ID: 410-104888-3

Date Collected: 11/08/22 00:00
Matrix: Water
Date Received: 11/08/22 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	315728	UJML	ELLE	11/09/22 14:27
Total/NA	Analysis	8260D		1	317546	USEJ	ELLE	11/15/22 11:45

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104888-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

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
200.8 Rev 5.4	200.8 Rev 5.4	Groundwater	Silver
2340C-2011		Groundwater	Total Hardness
365.1	365.1	Groundwater	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile
624.1		Groundwater	Methyl iodide
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane
624.1		Groundwater	n-Propyl acetate

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	N-Propylbenzene
624.1		Groundwater	p-Isopropyltoluene
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104888-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
SM 2330B		Groundwater	Langelier Index

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104888-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	MCAWW	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C - 2015	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
2540F-2015	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	MCAWW	ELLE
420.4	Phenolics, Total Recoverable	MCAWW	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2011	BOD, 5-Day	SM	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104888-1
Project/Site: EMGPRP-31097

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-104888-1	Outfall-01A	Groundwater	11/08/22 09:40	11/08/22 20:00
410-104888-2	Outfall-001	Groundwater	11/08/22 10:05	11/08/22 20:00
410-104888-3	QAQC_TB	Water	11/08/22 00:00	11/08/22 20:00

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Acct. # 13438

410-104888 Chain of Custody

E ... equest/Chain of Custody

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.		
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097
Consultant PM:	Courtney Lind	P.O. #: 0172 0030Y080	WAL# 4847
Sampler:	TG,NK	XOM PM:	Michael J Burghardt
Bill to :	☐ XOM ☑ Consultant		
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water: Potable	Ground	NPDES	Surface	Other: Trip Blank	Total # of Containers	VOCs (624.1) MEK, Acetone, MTBE	200.8, 245.1	625.1_PREC - (MOD) Priority Pollutants SVOCs	300_ORGFM_28D - (MOD) Chloride/Sulfate	SM5210B_Calc - BOD, 5-Day Only	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved	351.2, 365.1, 410.4	2320B, 2510B, 2540C_SingleDry,	420.4 - Phenols	353.2_Nitrite - Nitrogen, Nitrite	2540D_Single_Dry - TSS	SM2540F - Settleable Solids	Turbidity (180.1)	SM2330B - Local Method	2340C - Local Method	Oil&Grease (1664A)	RSK_175 Methane Ethane Ethene	8015C TPH-DRO/ORO Standard TPH-DRO/ORO	TPH-GRO (8015) #10598	Remarks
														H	N				S	S		S						N	H	H	H	H	
OUTFALL-01A	11/8/2022	9:40	X					X					27	6	1	2	1	1	1	2	2	1	1	1	1	1	1	1	2	2			
OUTFALL-001	11/8/2022	10:05	X					X					27	6	1	2	1	1	1	2	2	1	1	1	1	1	1	1	2	2			
QAQC_TB	11/8/2022	--										X	4	4																		

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

For Lab Use Only: SF #: ; SCR #:

Turnaround Time Requested (TAT) (please check): Standard ☐ Rush ☑

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): (5 day) 4day 72hour 48hour 24hour

Data Package Options (please check if required)

- Type I (Validation/non-CLP) ☐
- Type III (Reduced non-CLP/NJ Reduced) ☐
- TX TRRP-13 ☐
- NJ DKQP ☐
- NYSDEC Category ☐ A ☐ B
- OTHER: Standard with QC summary

EDD Format(s) Needed: EQuIS and Excel

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	11/8/22	15:30	Stan King	11/8/22	15:30
2	Stan King	11/8/22	20:00			
3						
4						
5				[signature]	11/8/22	2000

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt 4.4-8.2 °C Rec'd same day on ice

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0218

SR

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-104888-1

Login Number: 104888

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Roth, Stephanie

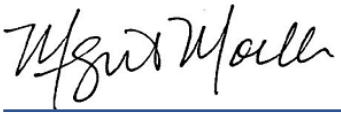
Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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11/18/2022 9:43:29 AM

Authorized for release by
Megan Moeller, Client Services Manager
Megan.Moeller@et.eurofinsus.com
(717)556-7261

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

· 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 is performed, unless otherwise specified in the method.

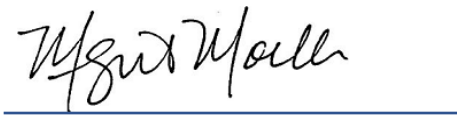
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

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

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

ANALYTICAL REPORT

PREPARED FOR

Attn: Matthew Mueller
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia New York 11749

Generated 11/24/2022 5:38:42 AM

JOB DESCRIPTION

EMGPRP-31097

JOB NUMBER

410-104890-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

my EOL

Table of Contents

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104890-1
Project/Site: EMGPRP-31097

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC 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.

GC Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-104890-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-104890-1

Receipt
The samples were received on 11/8/2022 8:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 8.5°C and 8.9°C

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: RCS Influent (410-104890-1), Receiving Water-001 (410-104890-2) and QAQC_TB (410-104890-3). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

The container count for the following samples did not match what was listed on the Chain-of-Custody (COC): QAQC_TB (410-104890-3). The laboratory received 8 total containers, while the COC lists 4 total containers.

GC/MS VOA
Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: RCS Influent (410-104890-1) and Receiving Water-001 (410-104890-2). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile , which are acid-labile compounds that degrade in an acidic medium.

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

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

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

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

Diesel Range Organics
Method 8015C_DRO: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 6: Receiving Water-001 (410-104890-2).This does not meet regulatory requirements.

Method 8015C_DRO: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 6: RCS Influent (410-104890-1).This does not meet regulatory requirements.

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

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

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

General Chemistry
Method 420.4: The following sample was diluted due to the nature of the sample matrix: Receiving Water-001 (410-104890-2). Elevated reporting limits (RLs) are provided.

Job ID: 410-104890-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: RCS Influent

Lab Sample ID: 410-104890-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.92	J	1.0	0.20	ug/L	1		624.1	Total/NA
1,1-Dichloroethene	0.99	J	1.0	0.30	ug/L	1		624.1	Total/NA
1,2,4-Trimethylbenzene	3.0		1.0	0.20	ug/L	1		624.1	Total/NA
1,2-Dichloroethane	1.2		1.0	0.30	ug/L	1		624.1	Total/NA
1,2-Dichloroethene (total)	120		1.0	0.20	ug/L	1		624.1	Total/NA
1,3,5-Trimethylbenzene	1.4		1.0	0.20	ug/L	1		624.1	Total/NA
Benzene	81		1.0	0.20	ug/L	1		624.1	Total/NA
Chlorobenzene	0.28	J	1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	120		1.0	0.20	ug/L	1		624.1	Total/NA
Cyclohexane	31		1.0	0.30	ug/L	1		624.1	Total/NA
Ethylbenzene	1.8		1.0	0.20	ug/L	1		624.1	Total/NA
Isopropylbenzene	4.9		2.0	0.50	ug/L	1		624.1	Total/NA
m&p-Xylene	9.5		1.0	0.30	ug/L	1		624.1	Total/NA
Naphthalene	1.9		1.0	0.20	ug/L	1		624.1	Total/NA
n-Butylbenzene	0.82	J	1.0	0.20	ug/L	1		624.1	Total/NA
n-Hexane	2.9		1.0	0.46	ug/L	1		624.1	Total/NA
N-Propylbenzene	4.7		1.0	0.20	ug/L	1		624.1	Total/NA
o-Xylene	1.3		1.0	0.20	ug/L	1		624.1	Total/NA
sec-Butylbenzene	1.2		1.0	0.20	ug/L	1		624.1	Total/NA
t-Butyl alcohol	98		20	6.0	ug/L	1		624.1	Total/NA
tert-Butylbenzene	0.45	J	1.0	0.20	ug/L	1		624.1	Total/NA
Toluene	1.9		1.0	0.20	ug/L	1		624.1	Total/NA
trans-1,2-Dichloroethene	0.59	J	1.0	0.20	ug/L	1		624.1	Total/NA
Trichloroethene	49		1.0	0.20	ug/L	1		624.1	Total/NA
Vinyl chloride	8.0		1.0	0.30	ug/L	1		624.1	Total/NA
Xylenes, Total	11		1.0	0.20	ug/L	1		624.1	Total/NA
Tetrachloroethene - DL	370		10	3.0	ug/L	10		624.1	Total/NA
Methyl tertiary butyl ether	5.8		1.0	0.20	ug/L	1		8260D	Total/NA
1-Methylnaphthalene	0.83	J	5.4	0.38	ug/L	1		625.1	Total/NA
Acenaphthene	0.88	J	5.4	0.27	ug/L	1		625.1	Total/NA
Fluoranthene	0.31	J	5.4	0.21	ug/L	1		625.1	Total/NA
Fluorene	0.62	J	5.4	0.21	ug/L	1		625.1	Total/NA
n-Tetradecane	1.0	J	5.4	0.54	ug/L	1		625.1	Total/NA
Pyrene	0.56	J	5.4	0.27	ug/L	1		625.1	Total/NA
GRO (1C)	710		50	23	ug/L	1		8015C	Total/NA
Ethane (1C)	1.9	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Ethene (1C)	1.1	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane (1C) - DL	1600		50	30	ug/L	10		RSK-175	Total/NA
DRO (C10-C28) (1C)	1.3	cn	0.19	0.071	mg/L	1		8015C	Total/NA
Sulfate	170		150	50	mg/L	100		EPA 300.0 R2.1	Total/NA
Chloride	940		750	300	mg/L	500		EPA 300.0 R2.1	Total/NA
Arsenic	4.4		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	310		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	150000		1200	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
Chromium	1.2	J	2.0	0.33	ug/L	1		200.8 Rev 5.4	Total Recoverable
Cobalt	1.5	B	0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: RCS Influent (Continued)

Lab Sample ID: 410-104890-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.45	J B	1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	4000		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	86000	B ^2	50	16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2600	B	2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	2.3		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	17000		200	65	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	490000	B ^2	2000	900	ug/L	10		200.8 Rev 5.4	Total Recoverable
Turbidity	45		4.0	4.0	NTU	4		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	370		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	820		100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	3900		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	2000		240	96	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	6.6		3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	1.4		1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.56		0.10	0.040	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	44	J	75	25	mg/L	1		410.4	Total/NA
Phenols, Total	0.015	J	0.020	0.010	mg/L	1		420.4	Total/NA
pH	7.4	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	21.6	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Langelier Index	0.52				LangSU	1		SM 2330B	Total/NA

Client Sample ID: Receiving Water-001

Lab Sample ID: 410-104890-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (1C)	15		5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	2000		750	250	mg/L	500		EPA 300.0 R2.1	Total/NA
Chloride	16000		7500	3000	mg/L	5000		EPA 300.0 R2.1	Total/NA
Antimony	0.26	J	1.0	0.20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Aluminum	41		30	12	ug/L	1		200.8 Rev 5.4	Total Recoverable
Arsenic	2.4		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	20		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	270000		12000	5000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Chromium	0.52	J	2.0	0.33	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	2.6		1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	160		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Lead	0.88		0.50	0.071	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	820000		5000	1600	ug/L	100		200.8 Rev 5.4	Total Recoverable
Manganese	57		2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104890-1
Project/Site: EMGPRP-31097

Client Sample ID: Receiving Water-001 (Continued)
Lab Sample ID: 410-104890-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	1.3		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	260000		20000	6500	ug/L	100		200.8 Rev 5.4	Total Recoverable
Sodium	7000000	^2	20000	9000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Vanadium	1.7	J	4.0	0.79	ug/L	1		200.8 Rev 5.4	Total Recoverable
Zinc	11		10	4.0	ug/L	1		200.8 Rev 5.4	Total Recoverable
Turbidity	2.3		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	4900		250	75	mg/L	25		2340C-2011	Total/NA
Specific Conductance	47000		50	17	umhos/cm	10		2510B-2011	Total/NA
Total Dissolved Solids	25000		3000	1200	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	7.1		3.0	1.0	mg/L	1		2540D-2015	Total/NA
Nitrate as N	0.47		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.61		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	620	J	750	250	mg/L	10		410.4	Total/NA
Phenols, Total	0.10	cn	0.20	0.10	mg/L	10		420.4	Total/NA
pH	7.6	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	21.6	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA

Client Sample ID: QAQC_TB
Lab Sample ID: 410-104890-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: RCS Influent
Date Collected: 11/08/22 09:20
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,1-Dichloroethane	**0.92**	**J**	1.0	0.20	ug/L			11/10/22 12:35	1
1,1-Dichloroethene	**0.99**	**J**	1.0	0.30	ug/L			11/10/22 12:35	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,2,4-Trimethylbenzene	**3.0**		1.0	0.20	ug/L			11/10/22 12:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/10/22 12:35	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/10/22 12:35	1
1,2-Dichloroethane	**1.2**		1.0	0.30	ug/L			11/10/22 12:35	1
1,2-Dichloroethene (total)	**120**		1.0	0.20	ug/L			11/10/22 12:35	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,3,5-Trimethylbenzene	**1.4**		1.0	0.20	ug/L			11/10/22 12:35	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 12:35	1
1,4-Dioxane	ND		100	82	ug/L			11/10/22 12:35	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/10/22 12:35	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/10/22 12:35	1
2-Chloroethyl vinyl ether	ND	cn	1.0	0.50	ug/L			11/10/22 12:35	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/10/22 12:35	1
2-Hexanone	ND		2.0	0.50	ug/L			11/10/22 12:35	1
2-Propanol	ND		20	8.0	ug/L			11/10/22 12:35	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/10/22 12:35	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/10/22 12:35	1
Acetonitrile	ND		50	14	ug/L			11/10/22 12:35	1
Benzene	**81**		1.0	0.20	ug/L			11/10/22 12:35	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/10/22 12:35	1
Bromobenzene	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Bromoform	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Bromomethane	ND		1.0	0.44	ug/L			11/10/22 12:35	1
Butyl acetate	ND		5.0	0.60	ug/L			11/10/22 12:35	1
Carbon disulfide	ND		1.0	0.45	ug/L			11/10/22 12:35	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			11/10/22 12:35	1
Chlorobenzene	**0.28**	**J**	1.0	0.20	ug/L			11/10/22 12:35	1
Chloroethane	ND		1.0	0.44	ug/L			11/10/22 12:35	1
Chloroform	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Chloromethane	ND		1.0	0.64	ug/L			11/10/22 12:35	1
cis-1,2-Dichloroethene	**120**		1.0	0.20	ug/L			11/10/22 12:35	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Cyclohexane	**31**		1.0	0.30	ug/L			11/10/22 12:35	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Dibromomethane	ND		1.0	0.20	ug/L			11/10/22 12:35	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: RCS Influent
Date Collected: 11/08/22 09:20
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			11/10/22 12:35	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			11/10/22 12:35	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/10/22 12:35	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Ethylbenzene	**1.8**		1.0	0.20	ug/L			11/10/22 12:35	1
Freon 113	ND		1.0	0.30	ug/L			11/10/22 12:35	1
Freon 123a	ND		1.0	0.44	ug/L			11/10/22 12:35	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Isobutyl alcohol	ND		50	11	ug/L			11/10/22 12:35	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/10/22 12:35	1
Isopropylbenzene	**4.9**		2.0	0.50	ug/L			11/10/22 12:35	1
m&p-Xylene	**9.5**		1.0	0.30	ug/L			11/10/22 12:35	1
Methacrylonitrile	ND		10	2.0	ug/L			11/10/22 12:35	1
Methyl iodide	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/10/22 12:35	1
Naphthalene	**1.9**		1.0	0.20	ug/L			11/10/22 12:35	1
n-Butylbenzene	**0.82**	**J**	1.0	0.20	ug/L			11/10/22 12:35	1
n-Heptane	ND		1.0	0.30	ug/L			11/10/22 12:35	1
n-Hexane	**2.9**		1.0	0.46	ug/L			11/10/22 12:35	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/10/22 12:35	1
N-Propylbenzene	**4.7**		1.0	0.20	ug/L			11/10/22 12:35	1
o-Xylene	**1.3**		1.0	0.20	ug/L			11/10/22 12:35	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/10/22 12:35	1
Propionitrile	ND		20	8.5	ug/L			11/10/22 12:35	1
sec-Butylbenzene	**1.2**		1.0	0.20	ug/L			11/10/22 12:35	1
Styrene	ND		1.0	0.20	ug/L			11/10/22 12:35	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/10/22 12:35	1
t-Butyl alcohol	**98**		20	6.0	ug/L			11/10/22 12:35	1
tert-Butylbenzene	**0.45**	**J**	1.0	0.20	ug/L			11/10/22 12:35	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/10/22 12:35	1
Toluene	**1.9**		1.0	0.20	ug/L			11/10/22 12:35	1
trans-1,2-Dichloroethene	**0.59**	**J**	1.0	0.20	ug/L			11/10/22 12:35	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/10/22 12:35	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/10/22 12:35	1
Trichloroethene	**49**		1.0	0.20	ug/L			11/10/22 12:35	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/10/22 12:35	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/10/22 12:35	1
Vinyl chloride	**8.0**		1.0	0.30	ug/L			11/10/22 12:35	1
Xylenes, Total	**11**		1.0	0.20	ug/L			11/10/22 12:35	1
Acrolein	ND	cn	10	3.0	ug/L			11/10/22 12:35	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			11/10/22 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*11/10/22 12:35*	*1*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*11/10/22 12:35*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*11/10/22 12:35*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*11/10/22 12:35*	*1*

Client Sample ID: RCS Influent
Date Collected: 11/08/22 09:20
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-1
Matrix: Groundwater

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**370**		10	3.0	ug/L			11/14/22 16:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*11/14/22 16:37*	*10*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*11/14/22 16:37*	*10*
Dibromofluoromethane (Surr)	*102*		*60 - 140*		*11/14/22 16:37*	*10*
Toluene-d8 (Surr)	*95*		*60 - 140*		*11/14/22 16:37*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**5.8**		1.0	0.20	ug/L			11/18/22 03:31	1
Acetone	ND		20	0.70	ug/L			11/18/22 03:31	1
2-Butanone	ND		10	0.50	ug/L			11/18/22 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*11/18/22 03:31*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*11/18/22 03:31*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/18/22 03:31*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/18/22 03:31*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
1,2,4,5-Tetrachlorobenzene	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
1,2,4-Trichlorobenzene	ND		1.1	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
1,2-Dichlorobenzene	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
1,2-Diphenylhydrazine	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
1,3-Dichlorobenzene	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
1,4-Dichlorobenzene	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
1,4-Dioxane	ND		5.4	2.1	ug/L		11/15/22 08:17	11/16/22 01:17	1
1-Methylnaphthalene	**0.83**	**J**	5.4	0.38	ug/L		11/15/22 08:17	11/16/22 01:17	1
1-Methylphenanthrene	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2,2'-oxybis[1-chloropropane]	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2,3,4,6-Tetrachlorophenol	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2,3-Dichloroaniline	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2,4,5-Trichlorophenol	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2,4,6-Trichlorophenol	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2,4-Dichlorophenol	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2,4-Dimethylphenol	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2,4-Dinitrophenol	ND		11	2.1	ug/L		11/15/22 08:17	11/16/22 01:17	1
2,4-Dinitrotoluene	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2,6-Dichlorophenol	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2,6-Dinitrotoluene	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2-Chloronaphthalene	ND		5.4	1.1	ug/L		11/15/22 08:17	11/16/22 01:17	1
2-Chlorophenol	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2-Methylnaphthalene	ND		5.4	0.21	ug/L		11/15/22 08:17	11/16/22 01:17	1
2-Methylphenol	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2-Nitroaniline	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
2-Nitrophenol	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
3,3'-Dichlorobenzidine	ND		5.4	0.86	ug/L		11/15/22 08:17	11/16/22 01:17	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: RCS Influent
Date Collected: 11/08/22 09:20
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-1
Matrix: Groundwater

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
4,6-Dinitro-2-methylphenol	ND		11	2.1	ug/L		11/15/22 08:17	11/16/22 01:17	1
4-Bromophenyl-phenylether	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
4-Chloro-3-methylphenol	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
4-Chloroaniline	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
4-Chlorophenyl-phenylether	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
4-Methylphenol	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
4-Nitroaniline	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
4-Nitrophenol	ND		5.4	0.97	ug/L		11/15/22 08:17	11/16/22 01:17	1
Acenaphthene	**0.88**	**J**	5.4	0.27	ug/L		11/15/22 08:17	11/16/22 01:17	1
Acenaphthylene	ND		5.4	0.21	ug/L		11/15/22 08:17	11/16/22 01:17	1
Acetophenone	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Aniline	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Anthracene	ND		5.4	0.27	ug/L		11/15/22 08:17	11/16/22 01:17	1
a-Terpineol	ND		5.4	0.64	ug/L		11/15/22 08:17	11/16/22 01:17	1
Benzidine	ND		64	6.4	ug/L		11/15/22 08:17	11/16/22 01:17	1
Benzo[a]anthracene	ND		5.4	0.27	ug/L		11/15/22 08:17	11/16/22 01:17	1
Benzo[a]pyrene	ND		5.4	0.27	ug/L		11/15/22 08:17	11/16/22 01:17	1
Benzo[b]fluoranthene	ND		5.4	0.27	ug/L		11/15/22 08:17	11/16/22 01:17	1
Benzo[g,h,i]perylene	ND		5.4	0.32	ug/L		11/15/22 08:17	11/16/22 01:17	1
Benzo[k]fluoranthene	ND		5.4	0.21	ug/L		11/15/22 08:17	11/16/22 01:17	1
Benzoic acid	ND		32	4.3	ug/L		11/15/22 08:17	11/16/22 01:17	1
Benzyl alcohol	ND	*+	5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Bis(2-chloroethoxy)methane	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Bis(2-chloroethyl)ether	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Bis(2-ethylhexyl) phthalate	ND		5.4	1.1	ug/L		11/15/22 08:17	11/16/22 01:17	1
Butylbenzylphthalate	ND		5.4	1.1	ug/L		11/15/22 08:17	11/16/22 01:17	1
Carbazole	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Chrysene	ND		5.4	0.21	ug/L		11/15/22 08:17	11/16/22 01:17	1
Dibenz(a,h)anthracene	ND		5.4	0.32	ug/L		11/15/22 08:17	11/16/22 01:17	1
Dibenzofuran	ND	*+	5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Diethylphthalate	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Dimethylphthalate	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Di-n-butyl phthalate	ND		5.4	1.1	ug/L		11/15/22 08:17	11/16/22 01:17	1
Di-n-octyl phthalate	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Diphenyl ether	ND		5.4	0.81	ug/L		11/15/22 08:17	11/16/22 01:17	1
Fluoranthene	**0.31**	**J**	5.4	0.21	ug/L		11/15/22 08:17	11/16/22 01:17	1
Fluorene	**0.62**	**J**	5.4	0.21	ug/L		11/15/22 08:17	11/16/22 01:17	1
Hexachlorobenzene	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Hexachlorobutadiene	ND		2.1	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Hexachlorocyclopentadiene	ND		16	3.2	ug/L		11/15/22 08:17	11/16/22 01:17	1
Hexachloroethane	ND		2.1	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Indeno[1,2,3-cd]pyrene	ND		5.4	0.32	ug/L		11/15/22 08:17	11/16/22 01:17	1
Isophorone	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Naphthalene	ND		2.1	0.32	ug/L		11/15/22 08:17	11/16/22 01:17	1
n-Decane	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
n-Docosane	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
n-Eicosane	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
n-Hexadecane	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1

Client Sample ID: RCS Influent
Date Collected: 11/08/22 09:20
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-1
Matrix: Groundwater

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
N-Nitrosodiethylamine	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
N-Nitrosodimethylamine	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
N-Nitrosodi-n-butylamine	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
N-Nitrosodi-n-propylamine	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
N-Nitrosodiphenylamine	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
N-Nitrosopyrrolidine	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
n-Octadecane	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
n-Tetradecane	**1.0**	**J**	5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
o-Toluidine	ND		5.4	1.1	ug/L		11/15/22 08:17	11/16/22 01:17	1
Pentachlorobenzene	ND		5.4	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Pentachlorophenol	ND		5.4	0.86	ug/L		11/15/22 08:17	11/16/22 01:17	1
Phenanthrene	ND		5.4	0.21	ug/L		11/15/22 08:17	11/16/22 01:17	1
Phenol	ND		1.1	0.54	ug/L		11/15/22 08:17	11/16/22 01:17	1
Pyrene	**0.56**	**J**	5.4	0.27	ug/L		11/15/22 08:17	11/16/22 01:17	1
Pyridine	ND		5.4	0.86	ug/L		11/15/22 08:17	11/16/22 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*13*		*10 - 150*	*11/15/22 08:17*	*11/16/22 01:17*	*1*
2-Fluorobiphenyl (Surr)	*76*		*32 - 115*	*11/15/22 08:17*	*11/16/22 01:17*	*1*
2-Fluorophenol (Surr)	*22*		*10 - 83*	*11/15/22 08:17*	*11/16/22 01:17*	*1*
Nitrobenzene-d5 (Surr)	*77*		*41 - 111*	*11/15/22 08:17*	*11/16/22 01:17*	*1*
Phenol-d5 (Surr)	*23*		*10 - 59*	*11/15/22 08:17*	*11/16/22 01:17*	*1*
p-Terphenyl-d14 (Surr)	*74*		*37 - 140*	*11/15/22 08:17*	*11/16/22 01:17*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	**710**		50	23	ug/L			11/16/22 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*96*		*63 - 135*		*11/16/22 14:18*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	**1.9**	**J**	5.0	1.0	ug/L		11/09/22 11:17	11/09/22 14:35	1
Ethene (1C)	**1.1**	**J**	5.0	1.0	ug/L		11/09/22 11:17	11/09/22 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*76*		*43 - 133*	*11/09/22 11:17*	*11/09/22 14:35*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (1C)	**1600**		50	30	ug/L		11/10/22 08:10	11/10/22 13:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*91*		*43 - 133*	*11/10/22 08:10*	*11/10/22 13:19*	*10*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	**1.3**	**cn**	0.19	0.071	mg/L		11/15/22 19:50	11/16/22 16:49	1
>C28-C35 (1C)	ND	cn	0.19	0.071	mg/L		11/15/22 19:50	11/16/22 16:49	1

Client Sample ID: RCS Influent

Date Collected: 11/08/22 09:20
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-1

Matrix: Groundwater

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*112*	*cn*	*43 - 131*	*11/15/22 19:50*	*11/16/22 16:49*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**170**		150	50	mg/L			11/18/22 20:14	100
Chloride	**940**		750	300	mg/L			11/21/22 15:38	500

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		11/15/22 04:42	11/17/22 18:30	1
Aluminum	ND		30	12	ug/L		11/15/22 04:42	11/17/22 18:30	1
Arsenic	**4.4**		2.0	0.68	ug/L		11/15/22 04:42	11/17/22 18:30	1
Barium	**310**		2.0	0.75	ug/L		11/15/22 04:42	11/17/22 18:30	1
Beryllium	ND		0.50	0.12	ug/L		11/15/22 04:42	11/17/22 18:30	1
Cadmium	ND		0.50	0.15	ug/L		11/15/22 04:42	11/17/22 18:30	1
Calcium	**150000**		1200	500	ug/L		11/15/22 04:42	11/17/22 19:01	10
Chromium	**1.2**	**J**	2.0	0.33	ug/L		11/15/22 04:42	11/17/22 18:30	1
Cobalt	**1.5**	**B**	0.50	0.16	ug/L		11/15/22 04:42	11/20/22 12:33	1
Copper	**0.45**	**J B**	1.0	0.36	ug/L		11/15/22 04:42	11/17/22 18:30	1
Iron	**4000**		50	20	ug/L		11/15/22 04:42	11/17/22 18:30	1
Lead	ND		0.50	0.071	ug/L		11/15/22 04:42	11/17/22 18:30	1
Magnesium	**86000**	**B ^2**	50	16	ug/L		11/15/22 04:42	11/17/22 18:30	1
Manganese	**2600**	**B**	2.0	0.95	ug/L		11/15/22 04:42	11/17/22 18:30	1
Nickel	**2.3**		1.0	0.40	ug/L		11/15/22 04:42	11/17/22 18:30	1
Potassium	**17000**		200	65	ug/L		11/15/22 04:42	11/17/22 18:30	1
Selenium	ND		1.0	0.28	ug/L		11/15/22 04:42	11/17/22 18:30	1
Silver	ND		0.50	0.10	ug/L		11/15/22 04:42	11/17/22 18:30	1
Sodium	**490000**	**B ^2**	2000	900	ug/L		11/15/22 04:42	11/17/22 19:01	10
Thallium	ND		0.50	0.13	ug/L		11/15/22 04:42	11/17/22 18:30	1
Vanadium	ND		4.0	0.79	ug/L		11/15/22 04:42	11/17/22 18:30	1
Zinc	ND		10	4.0	ug/L		11/15/22 04:42	11/17/22 18:30	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/11/22 09:31	11/11/22 19:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	ND		5.8	1.6	mg/L			11/09/22 20:57	1
Turbidity (MCAWW 180.1)	**45**		4.0	4.0	NTU			11/09/22 18:05	4
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**370**		8.0	2.6	mg/L			11/10/22 00:06	1
Total Hardness (SM 2340C-2011)	**820**		100	30	mg/L			11/10/22 13:47	10
Specific Conductance (SM 2510B-2011)	**3900**		5.0	1.7	umhos/cm			11/10/22 00:06	1
Total Dissolved Solids (SM 2540C - 2015)	**2000**		240	96	mg/L			11/09/22 11:05	1
Total Suspended Solids (SM 2540D-2015)	**6.6**		3.0	1.0	mg/L			11/10/22 15:08	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			11/09/22 14:06	1
Total Kjeldahl Nitrogen (MCAWW 351.2)	**1.4**		1.0	0.50	mg/L		11/17/22 13:00	11/18/22 16:12	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: RCS Influent
Date Collected: 11/08/22 09:20
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-1
Matrix: Groundwater

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 353.2)	**0.56**		0.10	0.040	mg/L			11/09/22 12:37	1
Total Phosphorus as PO4 (EPA 365.1)	ND		0.31	0.25	mg/L		11/10/22 09:51	11/11/22 08:44	1
Chemical Oxygen Demand (MCAWW 410.4)	**44**	**J**	75	25	mg/L			11/10/22 06:20	1
Phenols, Total (MCAWW 420.4)	**0.015**	**J**	0.020	0.010	mg/L			11/10/22 09:44	1
pH (SM 4500 H+ B-2011)	**7.4**	**HF**	0.01	0.01	S.U.			11/10/22 00:06	1
Temperature (SM 4500 H+ B-2011)	**21.6**	**HF**	0.01	0.01	Degrees C			11/10/22 00:06	1
Biochemical Oxygen Demand (SM 5210 B-2011)	ND		2.0	2.0	mg/L			11/09/22 17:46	1
Langelier Index (SM 2330B)	**0.52**				LangSU			11/13/22 12:38	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: Receiving Water-001
Date Collected: 11/08/22 10:25
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-2
Matrix: Surface Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/10/22 12:13	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/10/22 12:13	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/10/22 12:13	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/10/22 12:13	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
1,4-Dioxane	ND		100	82	ug/L			11/10/22 12:13	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/10/22 12:13	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/10/22 12:13	1
2-Chloroethyl vinyl ether	ND	cn	1.0	0.50	ug/L			11/10/22 12:13	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/10/22 12:13	1
2-Hexanone	ND		2.0	0.50	ug/L			11/10/22 12:13	1
2-Propanol	ND		20	8.0	ug/L			11/10/22 12:13	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/10/22 12:13	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/10/22 12:13	1
Acetonitrile	ND		50	14	ug/L			11/10/22 12:13	1
Benzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/10/22 12:13	1
Bromobenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Bromoform	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Bromomethane	ND		1.0	0.44	ug/L			11/10/22 12:13	1
Butyl acetate	ND		5.0	0.60	ug/L			11/10/22 12:13	1
Carbon disulfide	ND		1.0	0.45	ug/L			11/10/22 12:13	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			11/10/22 12:13	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Chloroethane	ND		1.0	0.44	ug/L			11/10/22 12:13	1
Chloroform	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Chloromethane	ND		1.0	0.64	ug/L			11/10/22 12:13	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Cyclohexane	ND		1.0	0.30	ug/L			11/10/22 12:13	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Dibromomethane	ND		1.0	0.20	ug/L			11/10/22 12:13	1

Client Sample ID: Receiving Water-001
Date Collected: 11/08/22 10:25
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-2
Matrix: Surface Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			11/10/22 12:13	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			11/10/22 12:13	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/10/22 12:13	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Freon 113	ND		1.0	0.30	ug/L			11/10/22 12:13	1
Freon 123a	ND		1.0	0.44	ug/L			11/10/22 12:13	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Isobutyl alcohol	ND		50	11	ug/L			11/10/22 12:13	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/10/22 12:13	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/10/22 12:13	1
m&p-Xylene	ND		1.0	0.30	ug/L			11/10/22 12:13	1
Methacrylonitrile	ND		10	2.0	ug/L			11/10/22 12:13	1
Methyl iodide	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/10/22 12:13	1
Naphthalene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
n-Heptane	ND		1.0	0.30	ug/L			11/10/22 12:13	1
n-Hexane	ND		1.0	0.46	ug/L			11/10/22 12:13	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/10/22 12:13	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
o-Xylene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Propionitrile	ND		20	8.5	ug/L			11/10/22 12:13	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Styrene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/10/22 12:13	1
t-Butyl alcohol	ND		20	6.0	ug/L			11/10/22 12:13	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/10/22 12:13	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/10/22 12:13	1
Toluene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/10/22 12:13	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/10/22 12:13	1
Trichloroethene	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/10/22 12:13	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/10/22 12:13	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/10/22 12:13	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/10/22 12:13	1
Acrolein	ND	cn	10	3.0	ug/L			11/10/22 12:13	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			11/10/22 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*11/10/22 12:13*	*1*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*11/10/22 12:13*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*		*11/10/22 12:13*	*1*

Client Sample ID: Receiving Water-001
Date Collected: 11/08/22 10:25
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-2
Matrix: Surface Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*60 - 140*		*11/10/22 12:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/18/22 03:51	1
Acetone	ND		20	0.70	ug/L			11/18/22 03:51	1
2-Butanone	ND		10	0.50	ug/L			11/18/22 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/18/22 03:51*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*11/18/22 03:51*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/18/22 03:51*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/18/22 03:51*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
1,4-Dioxane	ND		5.0	2.0	ug/L		11/15/22 08:17	11/16/22 01:38	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		11/15/22 08:17	11/16/22 01:38	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		11/15/22 08:17	11/16/22 01:38	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		11/15/22 08:17	11/16/22 01:38	1
2-Chlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/16/22 01:38	1
2-Methylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2-Nitroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
2-Nitrophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		11/15/22 08:17	11/16/22 01:38	1
3-Nitroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		11/15/22 08:17	11/16/22 01:38	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
4-Chloroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: Receiving Water-001
Date Collected: 11/08/22 10:25
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-2
Matrix: Surface Water

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
4-Nitroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
4-Nitrophenol	ND		5.0	0.90	ug/L		11/15/22 08:17	11/16/22 01:38	1
Acenaphthene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/16/22 01:38	1
Acenaphthylene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/16/22 01:38	1
Acetophenone	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Aniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Anthracene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/16/22 01:38	1
a-Terpineol	ND		5.0	0.60	ug/L		11/15/22 08:17	11/16/22 01:38	1
Benzidine	ND		60	6.0	ug/L		11/15/22 08:17	11/16/22 01:38	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/16/22 01:38	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/16/22 01:38	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/16/22 01:38	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		11/15/22 08:17	11/16/22 01:38	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/16/22 01:38	1
Benzoic acid	ND		30	4.0	ug/L		11/15/22 08:17	11/16/22 01:38	1
Benzyl alcohol	ND	*+	5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		11/15/22 08:17	11/16/22 01:38	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		11/15/22 08:17	11/16/22 01:38	1
Carbazole	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Chrysene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/16/22 01:38	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		11/15/22 08:17	11/16/22 01:38	1
Dibenzofuran	ND	*+	5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Diethylphthalate	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Dimethylphthalate	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		11/15/22 08:17	11/16/22 01:38	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Diphenyl ether	ND		5.0	0.75	ug/L		11/15/22 08:17	11/16/22 01:38	1
Fluoranthene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/16/22 01:38	1
Fluorene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/16/22 01:38	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		11/15/22 08:17	11/16/22 01:38	1
Hexachloroethane	ND		2.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		11/15/22 08:17	11/16/22 01:38	1
Isophorone	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Naphthalene	ND		2.0	0.30	ug/L		11/15/22 08:17	11/16/22 01:38	1
n-Decane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
n-Docosane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
n-Eicosane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
n-Hexadecane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Nitrobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1

Client Sample ID: Receiving Water-001
Date Collected: 11/08/22 10:25
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-2
Matrix: Surface Water

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
n-Octadecane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
n-Tetradecane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
o-Toluidine	ND		5.0	1.0	ug/L		11/15/22 08:17	11/16/22 01:38	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Pentachlorophenol	ND		5.0	0.80	ug/L		11/15/22 08:17	11/16/22 01:38	1
Phenanthrene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/16/22 01:38	1
Phenol	ND		1.0	0.50	ug/L		11/15/22 08:17	11/16/22 01:38	1
Pyrene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/16/22 01:38	1
Pyridine	ND		5.0	0.80	ug/L		11/15/22 08:17	11/16/22 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*78*		*10 - 150*	*11/15/22 08:17*	*11/16/22 01:38*	*1*
2-Fluorobiphenyl (Surr)	*82*		*32 - 115*	*11/15/22 08:17*	*11/16/22 01:38*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 83*	*11/15/22 08:17*	*11/16/22 01:38*	*1*
Nitrobenzene-d5 (Surr)	*84*		*41 - 111*	*11/15/22 08:17*	*11/16/22 01:38*	*1*
Phenol-d5 (Surr)	*45*		*10 - 59*	*11/15/22 08:17*	*11/16/22 01:38*	*1*
p-Terphenyl-d14 (Surr)	*96*		*37 - 140*	*11/15/22 08:17*	*11/16/22 01:38*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	ND		50	23	ug/L			11/16/22 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*100*		*63 - 135*		*11/16/22 14:43*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		11/09/22 11:17	11/09/22 14:50	1
Ethene (1C)	ND		5.0	1.0	ug/L		11/09/22 11:17	11/09/22 14:50	1
Methane (1C)	**15**		5.0	3.0	ug/L		11/09/22 11:17	11/09/22 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*57*		*43 - 133*	*11/09/22 11:17*	*11/09/22 14:50*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	ND	cn	0.19	0.069	mg/L		11/15/22 19:50	11/16/22 15:22	1
>C28-C35 (1C)	ND	cn	0.19	0.069	mg/L		11/15/22 19:50	11/16/22 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*90*	*cn*	*43 - 131*	*11/15/22 19:50*	*11/16/22 15:22*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2000**		750	250	mg/L			11/18/22 22:49	500
Chloride	**16000**		7500	3000	mg/L			11/18/22 22:57	5000

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.26**	**J**	1.0	0.20	ug/L		11/15/22 04:36	11/18/22 20:56	1
Aluminum	**41**		30	12	ug/L		11/15/22 04:36	11/18/22 20:56	1

Client Sample ID: Receiving Water-001
Date Collected: 11/08/22 10:25
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-2
Matrix: Surface Water

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		2.0	0.68	ug/L		11/15/22 04:36	11/18/22 20:56	1
Barium	20		2.0	0.75	ug/L		11/15/22 04:36	11/18/22 20:56	1
Beryllium	ND		0.50	0.12	ug/L		11/15/22 04:36	11/19/22 20:03	1
Cadmium	ND		0.50	0.15	ug/L		11/15/22 04:36	11/18/22 20:56	1
Calcium	270000		12000	5000	ug/L		11/15/22 04:36	11/19/22 20:09	100
Chromium	0.52	J	2.0	0.33	ug/L		11/15/22 04:36	11/18/22 20:56	1
Cobalt	ND		0.50	0.16	ug/L		11/15/22 04:36	11/18/22 20:56	1
Copper	2.6		1.0	0.36	ug/L		11/15/22 04:36	11/18/22 20:56	1
Iron	160		50	20	ug/L		11/15/22 04:36	11/18/22 20:56	1
Lead	0.88		0.50	0.071	ug/L		11/15/22 04:36	11/18/22 20:56	1
Magnesium	820000		5000	1600	ug/L		11/15/22 04:36	11/19/22 20:09	100
Manganese	57		2.0	0.95	ug/L		11/15/22 04:36	11/18/22 20:56	1
Nickel	1.3		1.0	0.40	ug/L		11/15/22 04:36	11/18/22 20:56	1
Potassium	260000		20000	6500	ug/L		11/15/22 04:36	11/19/22 20:09	100
Selenium	ND		1.0	0.28	ug/L		11/15/22 04:36	11/18/22 20:56	1
Silver	ND		0.50	0.10	ug/L		11/15/22 04:36	11/18/22 20:56	1
Sodium	7000000	^2	20000	9000	ug/L		11/15/22 04:36	11/19/22 20:09	100
Thallium	ND		0.50	0.13	ug/L		11/15/22 04:36	11/18/22 20:56	1
Vanadium	1.7	J	4.0	0.79	ug/L		11/15/22 04:36	11/18/22 20:56	1
Zinc	11		10	4.0	ug/L		11/15/22 04:36	11/18/22 20:56	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/11/22 09:31	11/11/22 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	ND		5.6	1.6	mg/L			11/09/22 20:57	1
Turbidity (MCAWW 180.1)	2.3		1.0	1.0	NTU			11/09/22 18:05	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	100		8.0	2.6	mg/L			11/09/22 22:06	1
Total Hardness (SM 2340C-2011)	4900		250	75	mg/L			11/10/22 16:15	25
Specific Conductance (SM 2510B-2011)	47000		50	17	umhos/cm			11/10/22 02:46	10
Total Dissolved Solids (SM 2540C - 2015)	25000		3000	1200	mg/L			11/09/22 11:07	1
Total Suspended Solids (SM 2540D-2015)	7.1		3.0	1.0	mg/L			11/10/22 15:08	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			11/09/22 14:06	1
Total Kjeldahl Nitrogen (MCAWW 351.2)	ND		1.0	0.50	mg/L		11/17/22 13:00	11/18/22 16:14	1
Nitrate as N (EPA 353.2)	0.47		0.10	0.040	mg/L			11/09/22 12:37	1
Total Phosphorus as PO4 (EPA 365.1)	0.61		0.31	0.25	mg/L		11/10/22 09:51	11/11/22 08:44	1
Chemical Oxygen Demand (MCAWW 410.4)	620	J	750	250	mg/L			11/10/22 06:20	10
Phenols, Total (MCAWW 420.4)	0.10	cn	0.20	0.10	mg/L			11/10/22 10:47	10
pH (SM 4500 H+ B-2011)	7.6	HF	0.01	0.01	S.U.			11/09/22 22:06	1
Temperature (SM 4500 H+ B-2011)	21.6	HF	0.01	0.01	Degrees C			11/09/22 22:06	1
Biochemical Oxygen Demand (SM 5210 B-2011)	ND		2.0	2.0	mg/L			11/09/22 17:46	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: QAQC_TB
Date Collected: 11/08/22 00:00
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-3
Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/10/22 11:28	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/10/22 11:28	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Benzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Bromoform	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Bromomethane	ND		1.0	0.44	ug/L			11/10/22 11:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/10/22 11:28	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			11/10/22 11:28	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/10/22 11:28	1
Chloroethane	ND		1.0	0.44	ug/L			11/10/22 11:28	1
Chloroform	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Chloromethane	ND		1.0	0.64	ug/L			11/10/22 11:28	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/10/22 11:28	1
1,4-Dioxane	ND		100	82	ug/L			11/10/22 11:28	1
Toluene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/10/22 11:28	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/10/22 11:28	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/10/22 11:28	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/10/22 11:28	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/10/22 11:28	1
Trichloroethene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
2-Hexanone	ND		2.0	0.50	ug/L			11/10/22 11:28	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/10/22 11:28	1
2-Propanol	ND		20	8.0	ug/L			11/10/22 11:28	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/10/22 11:28	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/10/22 11:28	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: QAQC_TB
Date Collected: 11/08/22 00:00
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-3
Matrix: Water

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/10/22 11:28	1
Acetonitrile	ND		50	14	ug/L			11/10/22 11:28	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/10/22 11:28	1
Bromobenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Butyl acetate	ND		5.0	0.60	ug/L			11/10/22 11:28	1
Carbon disulfide	ND		1.0	0.45	ug/L			11/10/22 11:28	1
Cyclohexane	ND		1.0	0.30	ug/L			11/10/22 11:28	1
Dibromomethane	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			11/10/22 11:28	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			11/10/22 11:28	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/10/22 11:28	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Freon 113	ND		1.0	0.30	ug/L			11/10/22 11:28	1
Freon 123a	ND		1.0	0.44	ug/L			11/10/22 11:28	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Isobutyl alcohol	ND		50	11	ug/L			11/10/22 11:28	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/10/22 11:28	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/10/22 11:28	1
Methacrylonitrile	ND		10	2.0	ug/L			11/10/22 11:28	1
Methyl iodide	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Naphthalene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Propionitrile	ND		20	8.5	ug/L			11/10/22 11:28	1
Styrene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/10/22 11:28	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/10/22 11:28	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/10/22 11:28	1
m&p-Xylene	ND		1.0	0.30	ug/L			11/10/22 11:28	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
n-Heptane	ND		1.0	0.30	ug/L			11/10/22 11:28	1
n-Hexane	ND		1.0	0.46	ug/L			11/10/22 11:28	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/10/22 11:28	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
o-Xylene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/10/22 11:28	1
t-Butyl alcohol	ND		20	6.0	ug/L			11/10/22 11:28	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:28	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/10/22 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*11/10/22 11:28*	*1*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*11/10/22 11:28*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*		*11/10/22 11:28*	*1*
Toluene-d8 (Surr)	*95*		*60 - 140*		*11/10/22 11:28*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: QAQC_TB
Date Collected: 11/08/22 00:00
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/18/22 00:14	1
Acetone	ND		20	0.70	ug/L			11/18/22 00:14	1
2-Butanone	ND		10	0.50	ug/L			11/18/22 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*11/18/22 00:14*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*11/18/22 00:14*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/18/22 00:14*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/18/22 00:14*	*1*

Action Limit Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104890-1
Project/Site: EMGPRP-31097

Client Sample ID: RCS Influent
Lab Sample ID: 410-104890-1

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	ND		mg/L	5	5.8	1664A	Total/NA

Client Sample ID: Receiving Water-001
Lab Sample ID: 410-104890-2

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	ND		mg/L	5	5.6	1664A	Total/NA

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-104890-1	RCS Influent	102	103	99	97
410-104890-1 - DL	RCS Influent	106	97	102	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-104890-2	Receiving Water-001	108	96	108	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-104890-3	QAQC_TB	108	95	106	95
LCS 410-316099/1003	Lab Control Sample	100	101	97	100
LCS 410-316099/1004	Lab Control Sample	101	97	99	94
LCS 410-317254/1003	Lab Control Sample	97	102	98	99
MB 410-316099/5	Method Blank	105	98	103	94
MB 410-317254/5	Method Blank	109	96	106	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-104890-1	RCS Influent	104	104	94	105

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-104890-2	Receiving Water-001	100	102	93	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-104890-3	QAQC_TB	102	101	93	104
LCS 410-318829/4	Lab Control Sample	104	103	93	102
MB 410-318829/6	Method Blank	103	103	92	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-111)	(10-59)	(37-140)
410-104890-1	RCS Influent	13	76	22	77	23	74

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-111)	(10-59)	(37-140)
410-104890-2	Receiving Water-001	78	82	50	84	45	96

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-111)	(10-59)	(37-140)
LCS 410-317595/2-A	Lab Control Sample	89	89	61	86	45	111
LCS 410-317595/4-A	Lab Control Sample	86	85	58	86	40	100
LCSD 410-317595/3-A	Lab Control Sample Dup	90	80	56	81	40	99
LCSD 410-317595/5-A	Lab Control Sample Dup	87	87	56	88	39	98
MB 410-317595/1-A	Method Blank	79	78	51	77	37	77

Surrogate Legend

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

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
410-104890-1	RCS Influent	96

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
410-104890-2	Receiving Water-001	100

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
LCS 410-318146/5	Lab Control Sample	92
LCSD 410-318146/6	Lab Control Sample Dup	92
MB 410-318146/4	Method Blank	100

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104890-1
Project/Site: EMGPRP-31097

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(43-133)								
410-104890-1	RCS Influent	76								
410-104890-1 - DL	RCS Influent	91								

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(43-133)								
410-104890-2	Receiving Water-001	57								

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(43-133)								
LCS 410-315664/2-A	Lab Control Sample	119								
LCS 410-316049/2-A	Lab Control Sample	105								
LCSD 410-315664/3-A	Lab Control Sample Dup	108								
LCSD 410-316049/3-A	Lab Control Sample Dup	102								
MB 410-315664/1-A	Method Blank	109								
MB 410-316049/1-A	Method Blank	101								

Surrogate Legend

Propene = Propene

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		OTP1								
Lab Sample ID	Client Sample ID	(43-131)								
410-104890-1	RCS Influent	112 cn								

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		OTP1								
Lab Sample ID	Client Sample ID	(43-131)								
410-104890-2	Receiving Water-001	90 cn								

Surrogate Legend

OTP = o- terphenyl (Surr)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104890-1
Project/Site: EMGPRP-31097

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		OTP1								
Lab Sample ID	Client Sample ID	(43-131)								
LCS 410-317933/2-A	Lab Control Sample	101								
LCSD 410-317933/3-A	Lab Control Sample Dup	106								
MB 410-317933/1-A	Method Blank	93								

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-316099/5
Matrix: Water
Analysis Batch: 316099

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/10/22 11:06	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/10/22 11:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/10/22 11:06	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/10/22 11:06	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			11/10/22 11:06	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			11/10/22 11:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Benzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
1,4-Dioxane	ND		100	82	ug/L			11/10/22 11:06	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/10/22 11:06	1
Bromoform	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Bromomethane	ND		1.0	0.44	ug/L			11/10/22 11:06	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/10/22 11:06	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			11/10/22 11:06	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/10/22 11:06	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Chloroethane	ND		1.0	0.44	ug/L			11/10/22 11:06	1
2-Hexanone	ND		2.0	0.50	ug/L			11/10/22 11:06	1
Chloroform	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Chloromethane	ND		1.0	0.64	ug/L			11/10/22 11:06	1
2-Propanol	ND		20	8.0	ug/L			11/10/22 11:06	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/10/22 11:06	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/10/22 11:06	1
Acetonitrile	ND		50	14	ug/L			11/10/22 11:06	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/10/22 11:06	1
Bromobenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Butyl acetate	ND		5.0	0.60	ug/L			11/10/22 11:06	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Carbon disulfide	ND		1.0	0.45	ug/L			11/10/22 11:06	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-316099/5
Matrix: Water
Analysis Batch: 316099

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.30	ug/L			11/10/22 11:06	1
Dibromomethane	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			11/10/22 11:06	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			11/10/22 11:06	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/10/22 11:06	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Freon 113	ND		1.0	0.30	ug/L			11/10/22 11:06	1
Freon 123a	ND		1.0	0.44	ug/L			11/10/22 11:06	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/10/22 11:06	1
Isobutyl alcohol	ND		50	11	ug/L			11/10/22 11:06	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/10/22 11:06	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/10/22 11:06	1
Methacrylonitrile	ND		10	2.0	ug/L			11/10/22 11:06	1
Methyl iodide	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Naphthalene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Propionitrile	ND		20	8.5	ug/L			11/10/22 11:06	1
Styrene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/10/22 11:06	1
m&p-Xylene	ND		1.0	0.30	ug/L			11/10/22 11:06	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
n-Heptane	ND		1.0	0.30	ug/L			11/10/22 11:06	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/10/22 11:06	1
n-Hexane	ND		1.0	0.46	ug/L			11/10/22 11:06	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/10/22 11:06	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/10/22 11:06	1
Toluene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
o-Xylene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/10/22 11:06	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Trichloroethene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
t-Butyl alcohol	ND		20	6.0	ug/L			11/10/22 11:06	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/10/22 11:06	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/10/22 11:06	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/10/22 11:06	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/10/22 11:06	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/10/22 11:06	1
Acrolein	ND		10	3.0	ug/L			11/10/22 11:06	1
Acrylonitrile	ND		3.0	1.1	ug/L			11/10/22 11:06	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-316099/5
Matrix: Water
Analysis Batch: 316099

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		60 - 140		11/10/22 11:06	1
4-Bromofluorobenzene (Surr)	98		60 - 140		11/10/22 11:06	1
Dibromofluoromethane (Surr)	103		60 - 140		11/10/22 11:06	1
Toluene-d8 (Surr)	94		60 - 140		11/10/22 11:06	1

Lab Sample ID: LCS 410-316099/1003
Matrix: Water
Analysis Batch: 316099

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.2		ug/L		96	60 - 140
1,1,1-Trichloroethane	20.0	19.1		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	60 - 140
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	70 - 130
1,1-Dichloroethane	20.0	20.6		ug/L		103	70 - 130
1,1-Dichloroethene	20.0	19.6		ug/L		98	50 - 150
1,1-Dichloropropene	20.0	20.5		ug/L		102	60 - 140
1,2,3-Trichlorobenzene	20.0	15.0		ug/L		75	60 - 140
1,2,3-Trichloropropane	20.0	19.3		ug/L		96	60 - 140
1,2,4-Trichlorobenzene	20.0	14.3		ug/L		72	60 - 140
1,2-Dichloroethane	20.0	20.2		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	20.0	19.2		ug/L		96	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	15.9		ug/L		80	60 - 140
1,2-Dichloropropane	20.0	22.4		ug/L		112	35 - 165
1,2-Dibromoethane	20.0	20.5		ug/L		102	60 - 140
1,2-Dichlorobenzene	20.0	18.4		ug/L		92	65 - 135
1,2-Dichloroethene (total)	40.0	39.5		ug/L		99	60 - 140
1,3,5-Trimethylbenzene	20.0	18.8		ug/L		94	60 - 140
1,3-Dichlorobenzene	20.0	18.6		ug/L		93	70 - 130
1,3-Dichloropropane	20.0	21.5		ug/L		108	60 - 140
1,4-Dichlorobenzene	20.0	19.1		ug/L		95	65 - 135
Benzene	20.0	21.2		ug/L		106	65 - 135
1,4-Dioxane	500	425		ug/L		85	60 - 140
Bromodichloromethane	20.0	21.4		ug/L		107	65 - 135
2,2-Dichloropropane	20.0	20.2		ug/L		101	60 - 140
Bromoform	20.0	19.9		ug/L		100	70 - 130
Bromomethane	20.0	15.3		ug/L		77	15 - 185
2-Chloro-1,3-butadiene	20.0	22.9		ug/L		114	60 - 140
Carbon tetrachloride	20.0	19.9		ug/L		99	70 - 130
2-Chlorotoluene	20.0	18.9		ug/L		94	60 - 140
Chlorobenzene	20.0	19.7		ug/L		99	65 - 135
Chloroethane	20.0	16.5		ug/L		82	40 - 160
2-Hexanone	250	332		ug/L		133	60 - 140
Chloroform	20.0	20.3		ug/L		101	70 - 135
Chloromethane	20.0	17.9		ug/L		90	10 - 200
2-Propanol	150	173		ug/L		115	60 - 140
cis-1,2-Dichloroethene	20.0	20.3		ug/L		102	60 - 140
cis-1,3-Dichloropropene	20.0	20.7		ug/L		104	25 - 175

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-316099/1003
Matrix: Water
Analysis Batch: 316099

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorotoluene	20.0	20.1		ug/L		101	60 - 140
Dibromochloromethane	20.0	19.9		ug/L		99	70 - 135
4-Methyl-2-pentanone	250	320		ug/L		128	60 - 140
Benzyl chloride	20.0	19.9		ug/L		99	60 - 140
Bromobenzene	20.0	19.2		ug/L		96	60 - 140
Ethylbenzene	20.0	20.3		ug/L		101	60 - 140
Carbon disulfide	20.0	20.3		ug/L		101	60 - 140
Cyclohexane	20.0	20.9		ug/L		105	60 - 140
Dibromomethane	20.0	21.0		ug/L		105	60 - 140
Dichlorodifluoromethane	20.0	14.5		ug/L		73	60 - 140
Dichlorofluoromethane	20.0	17.6		ug/L		88	60 - 140
Ethyl methacrylate	20.0	21.7		ug/L		109	60 - 140
Ethyl t-butyl ether	20.0	20.6		ug/L		103	60 - 140
Freon 113	20.0	19.4		ug/L		97	60 - 140
Freon 123a	20.0	18.0		ug/L		90	60 - 140
Hexachlorobutadiene	20.0	16.3		ug/L		81	60 - 140
Methylene Chloride	20.0	19.2		ug/L		96	60 - 140
Isobutyl alcohol	500	664		ug/L		133	60 - 140
Isopropylbenzene	20.0	19.2		ug/L		96	60 - 140
Methacrylonitrile	150	175		ug/L		117	60 - 140
Methyl iodide	20.0	19.2		ug/L		96	60 - 140
Methyl methacrylate	20.0	23.9		ug/L		119	60 - 140
Naphthalene	20.0	13.4		ug/L		67	60 - 140
Propionitrile	150	205		ug/L		136	60 - 140
Styrene	20.0	21.5		ug/L		108	60 - 140
di-Isopropyl ether	20.0	22.0		ug/L		110	60 - 140
m&p-Xylene	40.0	41.0		ug/L		102	60 - 140
n-Butylbenzene	20.0	20.0		ug/L		100	60 - 140
n-Heptane	20.0	22.7		ug/L		114	60 - 140
Tetrachloroethene	20.0	19.4		ug/L		97	70 - 130
n-Hexane	20.0	21.9		ug/L		109	60 - 140
Tetrahydrofuran	100	115		ug/L		115	60 - 140
Toluene	20.0	20.4		ug/L		102	70 - 130
N-Propylbenzene	20.0	19.8		ug/L		99	60 - 140
o-Xylene	20.0	19.1		ug/L		96	60 - 140
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	70 - 130
p-Isopropyltoluene	20.0	19.6		ug/L		98	60 - 140
trans-1,3-Dichloropropene	20.0	21.5		ug/L		107	50 - 150
sec-Butylbenzene	20.0	19.7		ug/L		99	60 - 140
t-Amyl methyl ether	20.0	20.3		ug/L		101	60 - 140
Trichloroethene	20.0	19.3		ug/L		96	65 - 135
t-Butyl alcohol	200	211		ug/L		105	60 - 140
Trichlorofluoromethane	20.0	17.4		ug/L		87	50 - 150
tert-Butylbenzene	20.0	18.7		ug/L		93	60 - 140
trans-1,4-Dichloro-2-butene	100	108		ug/L		108	60 - 140
Vinyl chloride	20.0	16.1		ug/L		81	10 - 195
Xylenes, Total	60.0	60.1		ug/L		100	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-316099/1003
Matrix: Water
Analysis Batch: 316099

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*
Dibromofluoromethane (Surr)	*97*		*60 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*

Lab Sample ID: LCS 410-316099/1004
Matrix: Water
Analysis Batch: 316099

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	150	175		ug/L		117	60 - 140
Butyl acetate	20.0	19.5		ug/L		98	60 - 140
Ethyl acetate	20.0	23.2		ug/L		116	60 - 140
Isopropyl acetate	20.0	22.2		ug/L		111	60 - 140
n-Propyl acetate	20.0	19.6		ug/L		98	60 - 140
Vinyl acetate	100	129		ug/L		129	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*
Dibromofluoromethane (Surr)	*99*		*60 - 140*
Toluene-d8 (Surr)	*94*		*60 - 140*

Lab Sample ID: MB 410-317254/5
Matrix: Water
Analysis Batch: 317254

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,1-Dichloroethane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			11/14/22 13:16	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			11/14/22 13:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			11/14/22 13:16	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,2-Dichlorobenzene	ND		1.0	0.10	ug/L			11/14/22 13:16	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			11/14/22 13:16	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			11/14/22 13:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-317254/5
Matrix: Water
Analysis Batch: 317254

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Benzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
1,4-Dioxane	ND		100	82	ug/L			11/14/22 13:16	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
2,2-Dichloropropane	ND		1.0	0.30	ug/L			11/14/22 13:16	1
Bromoform	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Bromomethane	ND		1.0	0.44	ug/L			11/14/22 13:16	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			11/14/22 13:16	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			11/14/22 13:16	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			11/14/22 13:16	1
Chlorobenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Chloroethane	ND		1.0	0.44	ug/L			11/14/22 13:16	1
2-Hexanone	ND		2.0	0.50	ug/L			11/14/22 13:16	1
Chloroform	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Chloromethane	ND		1.0	0.64	ug/L			11/14/22 13:16	1
2-Propanol	ND		20	8.0	ug/L			11/14/22 13:16	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			11/14/22 13:16	1
Dibromochloromethane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			11/14/22 13:16	1
Acetonitrile	ND		50	14	ug/L			11/14/22 13:16	1
Benzyl chloride	ND		1.0	0.25	ug/L			11/14/22 13:16	1
Bromobenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Butyl acetate	ND		5.0	0.60	ug/L			11/14/22 13:16	1
Ethylbenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Carbon disulfide	ND		1.0	0.45	ug/L			11/14/22 13:16	1
Cyclohexane	ND		1.0	0.30	ug/L			11/14/22 13:16	1
Dibromomethane	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Dichlorodifluoromethane	ND		1.0	0.52	ug/L			11/14/22 13:16	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			11/14/22 13:16	1
Ethyl acetate	ND		5.0	0.80	ug/L			11/14/22 13:16	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Ethyl t-butyl ether	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Freon 113	ND		1.0	0.30	ug/L			11/14/22 13:16	1
Freon 123a	ND		1.0	0.44	ug/L			11/14/22 13:16	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Methylene Chloride	ND		1.0	0.30	ug/L			11/14/22 13:16	1
Isobutyl alcohol	ND		50	11	ug/L			11/14/22 13:16	1
Isopropyl acetate	ND		5.0	0.60	ug/L			11/14/22 13:16	1
Isopropylbenzene	ND		2.0	0.50	ug/L			11/14/22 13:16	1
Methacrylonitrile	ND		10	2.0	ug/L			11/14/22 13:16	1
Methyl iodide	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Methyl methacrylate	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Naphthalene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Propionitrile	ND		20	8.5	ug/L			11/14/22 13:16	1
Styrene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
di-Isopropyl ether	ND		1.0	0.20	ug/L			11/14/22 13:16	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-317254/5
Matrix: Water
Analysis Batch: 317254

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m&p-Xylene	ND		1.0	0.30	ug/L			11/14/22 13:16	1
n-Butylbenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
n-Heptane	ND		1.0	0.30	ug/L			11/14/22 13:16	1
Tetrachloroethene	ND		1.0	0.30	ug/L			11/14/22 13:16	1
n-Hexane	ND		1.0	0.46	ug/L			11/14/22 13:16	1
Tetrahydrofuran	ND		5.0	1.0	ug/L			11/14/22 13:16	1
n-Propyl acetate	ND		5.0	0.60	ug/L			11/14/22 13:16	1
Toluene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
N-Propylbenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
o-Xylene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
trans-1,3-Dichloropropene	ND		1.0	0.10	ug/L			11/14/22 13:16	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Trichloroethene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
t-Butyl alcohol	ND		20	6.0	ug/L			11/14/22 13:16	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			11/14/22 13:16	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Vinyl acetate	ND		5.0	0.70	ug/L			11/14/22 13:16	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			11/14/22 13:16	1
Vinyl chloride	ND		1.0	0.30	ug/L			11/14/22 13:16	1
Xylenes, Total	ND		1.0	0.20	ug/L			11/14/22 13:16	1
Acrolein	ND		10	3.0	ug/L			11/14/22 13:16	1
Acrylonitrile	ND		3.0	1.1	ug/L			11/14/22 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*		*11/14/22 13:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*11/14/22 13:16*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*		*11/14/22 13:16*	*1*
Toluene-d8 (Surr)	*93*		*60 - 140*		*11/14/22 13:16*	*1*

Lab Sample ID: LCS 410-317254/1003
Matrix: Water
Analysis Batch: 317254

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.5		ug/L		98	60 - 140
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.8		ug/L		99	60 - 140
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	70 - 130
1,1-Dichloroethane	20.0	20.9		ug/L		104	70 - 130
1,1-Dichloroethene	20.0	20.1		ug/L		101	50 - 150
1,1-Dichloropropene	20.0	21.2		ug/L		106	60 - 140
1,2,3-Trichlorobenzene	20.0	15.0		ug/L		75	60 - 140
1,2,3-Trichloropropane	20.0	19.4		ug/L		97	60 - 140
1,2,4-Trichlorobenzene	20.0	13.9		ug/L		69	60 - 140
1,2-Dichloroethane	20.0	20.4		ug/L		102	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-317254/1003
Matrix: Water
Analysis Batch: 317254

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	20.0	19.5		ug/L		98	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	15.6		ug/L		78	60 - 140
1,2-Dichloropropane	20.0	23.3		ug/L		116	35 - 165
1,2-Dibromoethane	20.0	20.7		ug/L		103	60 - 140
1,2-Dichlorobenzene	20.0	17.9		ug/L		89	65 - 135
1,2-Dichloroethene (total)	40.0	40.0		ug/L		100	60 - 140
1,3,5-Trimethylbenzene	20.0	19.0		ug/L		95	60 - 140
1,3-Dichlorobenzene	20.0	18.5		ug/L		92	70 - 130
1,3-Dichloropropane	20.0	21.5		ug/L		107	60 - 140
1,4-Dichlorobenzene	20.0	18.7		ug/L		94	65 - 135
Benzene	20.0	21.5		ug/L		108	65 - 135
1,4-Dioxane	500	485		ug/L		97	60 - 140
Bromodichloromethane	20.0	22.1		ug/L		111	65 - 135
2,2-Dichloropropane	20.0	21.1		ug/L		106	60 - 140
Bromoform	20.0	19.9		ug/L		100	70 - 130
Bromomethane	20.0	16.8		ug/L		84	15 - 185
2-Chloro-1,3-butadiene	20.0	23.4		ug/L		117	60 - 140
Carbon tetrachloride	20.0	20.5		ug/L		103	70 - 130
2-Chlorotoluene	20.0	19.0		ug/L		95	60 - 140
Chlorobenzene	20.0	20.1		ug/L		100	65 - 135
Chloroethane	20.0	17.9		ug/L		89	40 - 160
2-Hexanone	250	336		ug/L		134	60 - 140
Chloroform	20.0	20.5		ug/L		102	70 - 135
Chloromethane	20.0	20.9		ug/L		104	10 - 200
2-Propanol	150	231	*+	ug/L		154	60 - 140
cis-1,2-Dichloroethene	20.0	20.6		ug/L		103	60 - 140
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	25 - 175
4-Chlorotoluene	20.0	20.4		ug/L		102	60 - 140
Dibromochloromethane	20.0	20.1		ug/L		100	70 - 135
4-Methyl-2-pentanone	250	319		ug/L		128	60 - 140
Benzyl chloride	20.0	19.2		ug/L		96	60 - 140
Bromobenzene	20.0	19.6		ug/L		98	60 - 140
Ethylbenzene	20.0	20.3		ug/L		101	60 - 140
Carbon disulfide	20.0	20.9		ug/L		104	60 - 140
Cyclohexane	20.0	21.5		ug/L		107	60 - 140
Dibromomethane	20.0	21.8		ug/L		109	60 - 140
Dichlorodifluoromethane	20.0	18.8		ug/L		94	60 - 140
Dichlorofluoromethane	20.0	18.1		ug/L		90	60 - 140
Ethyl methacrylate	20.0	22.3		ug/L		111	60 - 140
Ethyl t-butyl ether	20.0	21.0		ug/L		105	60 - 140
Freon 113	20.0	20.2		ug/L		101	60 - 140
Freon 123a	20.0	18.7		ug/L		93	60 - 140
Hexachlorobutadiene	20.0	16.2		ug/L		81	60 - 140
Methylene Chloride	20.0	19.3		ug/L		97	60 - 140
Isobutyl alcohol	500	706	*+	ug/L		141	60 - 140
Isopropylbenzene	20.0	19.5		ug/L		97	60 - 140
Methacrylonitrile	150	181		ug/L		121	60 - 140
Methyl iodide	20.0	19.8		ug/L		99	60 - 140
Methyl methacrylate	20.0	25.1		ug/L		125	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-317254/1003
Matrix: Water
Analysis Batch: 317254

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	20.0	13.1		ug/L		65	60 - 140
Propionitrile	150	207		ug/L		138	60 - 140
Styrene	20.0	21.5		ug/L		107	60 - 140
di-Isopropyl ether	20.0	22.5		ug/L		113	60 - 140
m&p-Xylene	40.0	41.5		ug/L		104	60 - 140
n-Butylbenzene	20.0	19.4		ug/L		97	60 - 140
n-Heptane	20.0	24.4		ug/L		122	60 - 140
Tetrachloroethene	20.0	19.7		ug/L		98	70 - 130
n-Hexane	20.0	22.9		ug/L		115	60 - 140
Tetrahydrofuran	100	118		ug/L		118	60 - 140
Toluene	20.0	20.5		ug/L		102	70 - 130
N-Propylbenzene	20.0	20.2		ug/L		101	60 - 140
o-Xylene	20.0	19.1		ug/L		96	60 - 140
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	70 - 130
p-Isopropyltoluene	20.0	19.4		ug/L		97	60 - 140
trans-1,3-Dichloropropene	20.0	22.0		ug/L		110	50 - 150
sec-Butylbenzene	20.0	19.9		ug/L		100	60 - 140
t-Amyl methyl ether	20.0	20.9		ug/L		104	60 - 140
Trichloroethene	20.0	20.0		ug/L		100	65 - 135
t-Butyl alcohol	200	218		ug/L		109	60 - 140
Trichlorofluoromethane	20.0	18.3		ug/L		92	50 - 150
tert-Butylbenzene	20.0	18.9		ug/L		94	60 - 140
trans-1,4-Dichloro-2-butene	100	115		ug/L		115	60 - 140
Vinyl chloride	20.0	18.2		ug/L		91	10 - 195
Xylenes, Total	60.0	60.6		ug/L		101	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*
Dibromofluoromethane (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

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

Lab Sample ID: MB 410-318829/6
Matrix: Water
Analysis Batch: 318829

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			11/17/22 20:15	1
Acetone	ND		20	0.70	ug/L			11/17/22 20:15	1
2-Butanone	ND		10	0.50	ug/L			11/17/22 20:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*11/17/22 20:15*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/17/22 20:15*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*11/17/22 20:15*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/17/22 20:15*	*1*

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

Lab Sample ID: LCS 410-318829/4
Matrix: Water
Analysis Batch: 318829

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tertiary butyl ether	20.0	19.7		ug/L		99	69 - 122
Acetone	250	284		ug/L		113	54 - 157
2-Butanone	250	227		ug/L		91	59 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-317595/1-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
1,4-Dioxane	ND		5.0	2.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		11/15/22 08:17	11/15/22 19:12	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Chlorophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Methylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Nitroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
2-Nitrophenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		11/15/22 08:17	11/15/22 19:12	1
3-Nitroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-317595/1-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Chloroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Methylphenol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Nitroaniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
4-Nitrophenol	ND		5.0	0.90	ug/L		11/15/22 08:17	11/15/22 19:12	1
Acenaphthene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
Acenaphthylene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Acetophenone	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Aniline	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Anthracene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
a-Terpineol	ND		5.0	0.60	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzidine	ND		60	6.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzoic acid	ND		30	4.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Benzyl alcohol	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Carbazole	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Chrysene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		11/15/22 08:17	11/15/22 19:12	1
Dibenzofuran	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Diethylphthalate	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Dimethylphthalate	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Diphenyl ether	ND		5.0	0.75	ug/L		11/15/22 08:17	11/15/22 19:12	1
Fluoranthene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Fluorene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Hexachloroethane	ND		2.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		11/15/22 08:17	11/15/22 19:12	1
Isophorone	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Naphthalene	ND		2.0	0.30	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Decane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Docosane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Eicosane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Hexadecane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Nitrobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-317595/1-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Octadecane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
n-Tetradecane	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
o-Toluidine	ND		5.0	1.0	ug/L		11/15/22 08:17	11/15/22 19:12	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Pentachlorophenol	ND		5.0	0.80	ug/L		11/15/22 08:17	11/15/22 19:12	1
Phenanthrene	ND		5.0	0.20	ug/L		11/15/22 08:17	11/15/22 19:12	1
Phenol	ND		1.0	0.50	ug/L		11/15/22 08:17	11/15/22 19:12	1
Pyrene	ND		5.0	0.25	ug/L		11/15/22 08:17	11/15/22 19:12	1
Pyridine	ND		5.0	0.80	ug/L		11/15/22 08:17	11/15/22 19:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*79*		*10 - 150*	*11/15/22 08:17*	*11/15/22 19:12*	*1*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*	*11/15/22 08:17*	*11/15/22 19:12*	*1*
2-Fluorophenol (Surr)	*51*		*10 - 83*	*11/15/22 08:17*	*11/15/22 19:12*	*1*
Nitrobenzene-d5 (Surr)	*77*		*41 - 111*	*11/15/22 08:17*	*11/15/22 19:12*	*1*
Phenol-d5 (Surr)	*37*		*10 - 59*	*11/15/22 08:17*	*11/15/22 19:12*	*1*
p-Terphenyl-d14 (Surr)	*77*		*37 - 140*	*11/15/22 08:17*	*11/15/22 19:12*	*1*

Lab Sample ID: LCS 410-317595/2-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	50.0	53.0		ug/L		106	58 - 111
1,2,4,5-Tetrachlorobenzene	50.0	48.1		ug/L		96	36 - 106
1,2,4-Trichlorobenzene	50.0	45.6		ug/L		91	44 - 142
1,2-Dichlorobenzene	50.0	44.5		ug/L		89	36 - 95
1,2-Diphenylhydrazine	50.0	56.8		ug/L		114	57 - 127
1,3-Dichlorobenzene	50.0	44.3		ug/L		89	32 - 95
1,4-Dichlorobenzene	50.0	43.2		ug/L		86	33 - 92
1,4-Dioxane	50.0	27.0		ug/L		54	30 - 60
1-Methylnaphthalene	50.0	49.7		ug/L		99	53 - 105
1-Methylphenanthrene	50.0	54.4		ug/L		109	70 - 114
2,2'-oxybis[1-chloropropane]	50.0	49.1		ug/L		98	48 - 110
2,3,4,6-Tetrachlorophenol	50.0	48.4		ug/L		97	61 - 117
2,3-Dichloroaniline	50.0	51.3		ug/L		103	59 - 116
2,4,5-Trichlorophenol	50.0	58.3		ug/L		117	67 - 122
2,4,6-Trichlorophenol	50.0	59.9		ug/L		120	37 - 144
2,4-Dichlorophenol	50.0	56.0		ug/L		112	39 - 135
2,4-Dimethylphenol	50.0	52.1		ug/L		104	32 - 120
2,4-Dinitrophenol	100	101		ug/L		101	10 - 191
2,4-Dinitrotoluene	50.0	57.4		ug/L		115	39 - 139
2,6-Dichlorophenol	50.0	56.6		ug/L		113	72 - 113
2,6-Dinitrotoluene	50.0	55.4		ug/L		111	50 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-317595/2-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloronaphthalene	50.0	49.2		ug/L		98	60 - 120
2-Chlorophenol	50.0	48.6		ug/L		97	23 - 134
2-Methylnaphthalene	50.0	48.8		ug/L		98	44 - 111
2-Methylphenol	50.0	47.9		ug/L		96	52 - 105
2-Nitroaniline	50.0	56.1		ug/L		112	60 - 125
2-Nitrophenol	50.0	52.7		ug/L		105	29 - 182
3,3'-Dichlorobenzidine	100	77.0		ug/L		77	10 - 200
3-Nitroaniline	50.0	46.3		ug/L		93	58 - 114
4,6-Dinitro-2-methylphenol	100	111		ug/L		111	10 - 181
4-Bromophenyl-phenylether	50.0	56.1		ug/L		112	53 - 127
4-Chloro-3-methylphenol	50.0	50.5		ug/L		101	22 - 147
4-Chloroaniline	50.0	33.8		ug/L		68	39 - 104
4-Chlorophenyl-phenylether	50.0	53.8		ug/L		108	25 - 158
4-Methylphenol	50.0	45.6		ug/L		91	47 - 96
4-Nitroaniline	50.0	51.2		ug/L		102	59 - 111
4-Nitrophenol	100	70.5		ug/L		71	10 - 132
Acenaphthene	50.0	53.0		ug/L		106	47 - 145
Acenaphthylene	50.0	53.2		ug/L		106	33 - 145
Acetophenone	50.0	49.9		ug/L		100	56 - 108
Aniline	50.0	30.5		ug/L		61	26 - 95
Anthracene	50.0	55.9		ug/L		112	27 - 133
a-Terpineol	50.0	54.2		ug/L		108	65 - 117
Benzidine	100	17.3	J	ug/L		17	10 - 72
Benzo[a]anthracene	50.0	55.6		ug/L		111	33 - 143
Benzo[a]pyrene	50.0	53.9		ug/L		108	17 - 163
Benzo[b]fluoranthene	50.0	51.6		ug/L		103	24 - 159
Benzo[g,h,i]perylene	50.0	55.0		ug/L		110	10 - 200
Benzo[k]fluoranthene	50.0	58.1		ug/L		116	11 - 162
Benzoic acid	50.0	15.5	J	ug/L		31	10 - 96
Benzyl alcohol	50.0	60.2	*+	ug/L		120	38 - 104
Bis(2-chloroethoxy)methane	50.0	51.5		ug/L		103	33 - 184
Bis(2-chloroethyl)ether	50.0	49.0		ug/L		98	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	59.1		ug/L		118	10 - 158
Butylbenzylphthalate	50.0	48.1		ug/L		96	10 - 152
Carbazole	50.0	54.7		ug/L		109	67 - 121
Chrysene	50.0	56.0		ug/L		112	17 - 168
Dibenz(a,h)anthracene	50.0	55.6		ug/L		111	10 - 200
Dibenzofuran	50.0	53.9	*+	ug/L		108	64 - 106
Diethylphthalate	50.0	47.9		ug/L		96	10 - 120
Dimethylphthalate	50.0	35.0		ug/L		70	10 - 120
Di-n-butyl phthalate	50.0	53.5		ug/L		107	10 - 120
Di-n-octyl phthalate	50.0	63.4		ug/L		127	10 - 146
Diphenyl ether	50.0	52.7		ug/L		105	59 - 105
Fluoranthene	50.0	53.6		ug/L		107	26 - 137
Fluorene	50.0	55.4		ug/L		111	59 - 121
Hexachlorobenzene	50.0	52.6		ug/L		105	10 - 152
Hexachlorobutadiene	50.0	39.3		ug/L		79	24 - 120
Hexachlorocyclopentadiene	50.0	20.1		ug/L		40	10 - 67
Hexachloroethane	50.0	40.7		ug/L		81	40 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-317595/2-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	50.0	55.4		ug/L		111	10 - 171
Isophorone	50.0	52.4		ug/L		105	21 - 196
Naphthalene	50.0	48.2		ug/L		96	21 - 133
n-Decane	50.0	35.7		ug/L		71	16 - 110
n-Docosane	50.0	70.0		ug/L		140	53 - 177
n-Eicosane	50.0	66.5		ug/L		133	62 - 154
n-Hexadecane	50.0	53.8		ug/L		108	43 - 133
Nitrobenzene	50.0	48.4		ug/L		97	35 - 180
N-Nitrosodimethylamine	50.0	33.8		ug/L		68	38 - 74
N-Nitrosodi-n-propylamine	50.0	51.3		ug/L		103	10 - 200
N-Nitrosodiphenylamine	42.5	48.4		ug/L		114	70 - 121
n-Octadecane	50.0	57.6		ug/L		115	55 - 138
n-Tetradecane	50.0	48.2		ug/L		96	26 - 140
Pentachlorophenol	100	117		ug/L		117	14 - 176
Phenanthrene	50.0	55.0		ug/L		110	54 - 120
Phenol	50.0	28.0		ug/L		56	10 - 120
Pyrene	50.0	59.1		ug/L		118	52 - 120
Pyridine	100	57.3		ug/L		57	18 - 72

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*89*		*10 - 150*
2-Fluorobiphenyl (Surr)	*89*		*32 - 115*
2-Fluorophenol (Surr)	*61*		*10 - 83*
Nitrobenzene-d5 (Surr)	*86*		*41 - 111*
Phenol-d5 (Surr)	*45*		*10 - 59*
p-Terphenyl-d14 (Surr)	*111*		*37 - 140*

Lab Sample ID: LCS 410-317595/4-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodiethylamine	50.0	44.6		ug/L		89	68 - 107
N-Nitrosodi-n-butylamine	50.0	47.6		ug/L		95	57 - 101
N-Nitrosopyrrolidine	50.0	44.2		ug/L		88	61 - 103
o-Toluidine	50.0	36.3		ug/L		73	50 - 97
Pentachlorobenzene	50.0	42.9		ug/L		86	31 - 116

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*86*		*10 - 150*
2-Fluorobiphenyl (Surr)	*85*		*32 - 115*
2-Fluorophenol (Surr)	*58*		*10 - 83*
Nitrobenzene-d5 (Surr)	*86*		*41 - 111*
Phenol-d5 (Surr)	*40*		*10 - 59*
p-Terphenyl-d14 (Surr)	*100*		*37 - 140*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-317595/3-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			50.0	47.3		ug/L		95	58 - 111	11	30
1,2,4,5-Tetrachlorobenzene			50.0	43.4		ug/L		87	36 - 106	10	30
1,2,4-Trichlorobenzene			50.0	42.7		ug/L		85	44 - 142	7	30
1,2-Dichlorobenzene			50.0	40.0		ug/L		80	36 - 95	11	30
1,2-Diphenylhydrazine			50.0	50.6		ug/L		101	57 - 127	12	30
1,3-Dichlorobenzene			50.0	39.7		ug/L		79	32 - 95	11	30
1,4-Dichlorobenzene			50.0	39.0		ug/L		78	33 - 92	10	30
1,4-Dioxane			50.0	23.8		ug/L		48	30 - 60	12	30
1-Methylnaphthalene			50.0	46.2		ug/L		92	53 - 105	7	30
1-Methylphenanthrene			50.0	47.2		ug/L		94	70 - 114	14	30
2,2'-oxybis[1-chloropropane]			50.0	45.4		ug/L		91	48 - 110	8	30
2,3,4,6-Tetrachlorophenol			50.0	49.2		ug/L		98	61 - 117	2	30
2,3-Dichloroaniline			50.0	46.7		ug/L		93	59 - 116	9	30
2,4,5-Trichlorophenol			50.0	56.2		ug/L		112	67 - 122	4	30
2,4,6-Trichlorophenol			50.0	57.7		ug/L		115	37 - 144	4	30
2,4-Dichlorophenol			50.0	56.0		ug/L		112	39 - 135	0	30
2,4-Dimethylphenol			50.0	51.2		ug/L		102	32 - 120	2	30
2,4-Dinitrophenol			100	122		ug/L		122	10 - 191	18	30
2,4-Dinitrotoluene			50.0	55.1		ug/L		110	39 - 139	4	30
2,6-Dichlorophenol			50.0	55.5		ug/L		111	72 - 113	2	30
2,6-Dinitrotoluene			50.0	52.8		ug/L		106	50 - 158	5	30
2-Chloronaphthalene			50.0	44.8		ug/L		90	60 - 120	9	24
2-Chlorophenol			50.0	46.3		ug/L		93	23 - 134	5	30
2-Methylnaphthalene			50.0	46.1		ug/L		92	44 - 111	6	30
2-Methylphenol			50.0	44.1		ug/L		88	52 - 105	8	30
2-Nitroaniline			50.0	53.1		ug/L		106	60 - 125	6	30
2-Nitrophenol			50.0	52.2		ug/L		104	29 - 182	1	30
3,3'-Dichlorobenzidine			100	68.6		ug/L		69	10 - 200	12	30
3-Nitroaniline			50.0	44.7		ug/L		89	58 - 114	3	30
4,6-Dinitro-2-methylphenol			100	113		ug/L		113	10 - 181	2	30
4-Bromophenyl-phenylether			50.0	49.4		ug/L		99	53 - 127	13	30
4-Chloro-3-methylphenol			50.0	51.4		ug/L		103	22 - 147	2	30
4-Chloroaniline			50.0	31.8		ug/L		64	39 - 104	6	30
4-Chlorophenyl-phenylether			50.0	47.9		ug/L		96	25 - 158	12	30
4-Methylphenol			50.0	43.7		ug/L		87	47 - 96	4	30
4-Nitroaniline			50.0	54.2		ug/L		108	59 - 111	6	30
4-Nitrophenol			100	64.1		ug/L		64	10 - 132	9	30
Acenaphthene			50.0	47.9		ug/L		96	47 - 145	10	30
Acenaphthylene			50.0	48.5		ug/L		97	33 - 145	9	30
Acetophenone			50.0	45.9		ug/L		92	56 - 108	8	30
Aniline			50.0	26.7		ug/L		53	26 - 95	13	30
Anthracene			50.0	48.9		ug/L		98	27 - 133	13	30
a-Terpineol			50.0	51.5		ug/L		103	65 - 117	5	30
Benzidine			100	18.2	J	ug/L		18	10 - 72	5	30
Benzo[a]anthracene			50.0	49.3		ug/L		99	33 - 143	12	30
Benzo[a]pyrene			50.0	49.2		ug/L		98	17 - 163	9	30
Benzo[b]fluoranthene			50.0	46.9		ug/L		94	24 - 159	10	30
Benzo[g,h,i]perylene			50.0	47.6		ug/L		95	10 - 200	14	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-317595/3-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[k]fluoranthene			50.0	50.1		ug/L		100	11 - 162	15	30
Benzoic acid			50.0	17.8	J	ug/L		36	10 - 96	14	30
Benzyl alcohol			50.0	51.4		ug/L		103	38 - 104	16	30
Bis(2-chloroethoxy)methane			50.0	48.2		ug/L		96	33 - 184	7	30
Bis(2-chloroethyl)ether			50.0	44.9		ug/L		90	12 - 158	9	30
Bis(2-ethylhexyl) phthalate			50.0	51.6		ug/L		103	10 - 158	13	30
Butylbenzylphthalate			50.0	45.5		ug/L		91	10 - 152	5	30
Carbazole			50.0	49.1		ug/L		98	67 - 121	11	30
Chrysene			50.0	49.9		ug/L		100	17 - 168	12	30
Dibenz(a,h)anthracene			50.0	47.8		ug/L		96	10 - 200	15	30
Dibenzofuran			50.0	48.5		ug/L		97	64 - 106	11	30
Diethylphthalate			50.0	46.2		ug/L		92	10 - 120	4	30
Dimethylphthalate			50.0	36.8		ug/L		74	10 - 120	5	30
Di-n-butyl phthalate			50.0	49.3		ug/L		99	10 - 120	8	30
Di-n-octyl phthalate			50.0	55.0		ug/L		110	10 - 146	14	30
Diphenyl ether			50.0	46.9		ug/L		94	59 - 105	12	30
Fluoranthene			50.0	49.0		ug/L		98	26 - 137	9	30
Fluorene			50.0	50.0		ug/L		100	59 - 121	10	30
Hexachlorobenzene			50.0	47.6		ug/L		95	10 - 152	10	30
Hexachlorobutadiene			50.0	36.3		ug/L		73	24 - 120	8	30
Hexachlorocyclopentadiene			50.0	18.6		ug/L		37	10 - 67	8	30
Hexachloroethane			50.0	35.7		ug/L		71	40 - 120	13	30
Indeno[1,2,3-cd]pyrene			50.0	49.4		ug/L		99	10 - 171	11	30
Isophorone			50.0	49.8		ug/L		100	21 - 196	5	30
Naphthalene			50.0	44.6		ug/L		89	21 - 133	8	30
n-Decane			50.0	33.1		ug/L		66	16 - 110	8	30
n-Docosane			50.0	60.1		ug/L		120	53 - 177	15	30
n-Eicosane			50.0	56.2		ug/L		112	62 - 154	17	30
n-Hexadecane			50.0	46.4		ug/L		93	43 - 133	15	30
Nitrobenzene			50.0	46.0		ug/L		92	35 - 180	5	30
N-Nitrosodimethylamine			50.0	28.6		ug/L		57	38 - 74	17	30
N-Nitrosodi-n-propylamine			50.0	48.0		ug/L		96	10 - 200	7	30
N-Nitrosodiphenylamine			42.5	41.5		ug/L		98	70 - 121	15	30
n-Octadecane			50.0	48.1		ug/L		96	55 - 138	18	30
n-Tetradecane			50.0	41.4		ug/L		83	26 - 140	15	30
Pentachlorophenol			100	123		ug/L		123	14 - 176	5	30
Phenanthrene			50.0	48.1		ug/L		96	54 - 120	13	30
Phenol			50.0	25.3		ug/L		51	10 - 120	10	30
Pyrene			50.0	51.6		ug/L		103	52 - 120	14	30
Pyridine			100	46.2		ug/L		46	18 - 72	22	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*90*		*10 - 150*
2-Fluorobiphenyl (Surr)	*80*		*32 - 115*
2-Fluorophenol (Surr)	*56*		*10 - 83*
Nitrobenzene-d5 (Surr)	*81*		*41 - 111*
Phenol-d5 (Surr)	*40*		*10 - 59*
p-Terphenyl-d14 (Surr)	*99*		*37 - 140*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-317595/5-A
Matrix: Water
Analysis Batch: 317855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodiethylamine			50.0	44.0		ug/L		88	68 - 107	1	30
N-Nitrosodi-n-butylamine			50.0	48.1		ug/L		96	57 - 101	1	30
N-Nitrosopyrrolidine			50.0	45.3		ug/L		91	61 - 103	3	30
o-Toluidine			50.0	39.8		ug/L		80	50 - 97	9	30
Pentachlorobenzene			50.0	44.6		ug/L		89	31 - 116	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*87*		*10 - 150*
2-Fluorobiphenyl (Surr)	*87*		*32 - 115*
2-Fluorophenol (Surr)	*56*		*10 - 83*
Nitrobenzene-d5 (Surr)	*88*		*41 - 111*
Phenol-d5 (Surr)	*39*		*10 - 59*
p-Terphenyl-d14 (Surr)	*98*		*37 - 140*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 410-318146/4
Matrix: Water
Analysis Batch: 318146

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	ND		50	23	ug/L			11/16/22 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*100*		*63 - 135*		*11/16/22 12:00*	*1*

Lab Sample ID: LCS 410-318146/5
Matrix: Water
Analysis Batch: 318146

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
GRO (1C)			1100	1000		ug/L		91	70 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*92*		*63 - 135*

Lab Sample ID: LCSD 410-318146/6
Matrix: Water
Analysis Batch: 318146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
GRO (1C)			1100	985		ug/L		90	70 - 123	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*92*		*63 - 135*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-315664/1-A
Matrix: Water
Analysis Batch: 315574

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		11/09/22 11:17	11/09/22 13:10	1
Ethene (1C)	ND		5.0	1.0	ug/L		11/09/22 11:17	11/09/22 13:10	1
Methane (1C)	ND		5.0	3.0	ug/L		11/09/22 11:17	11/09/22 13:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*109*		*43 - 133*	*11/09/22 11:17*	*11/09/22 13:10*	*1*

Lab Sample ID: LCS 410-315664/2-A
Matrix: Water
Analysis Batch: 315574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane (1C)	61.7	62.9		ug/L		102	85 - 115
Ethene (1C)	58.3	59.6		ug/L		102	83 - 115
Methane (1C)	59.8	62.5		ug/L		105	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*119*		*43 - 133*

Lab Sample ID: LCSD 410-315664/3-A
Matrix: Water
Analysis Batch: 315574

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 315664

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)	61.7	63.4		ug/L		103	85 - 115	1	20
Ethene (1C)	58.3	60.2		ug/L		103	83 - 115	1	20
Methane (1C)	59.8	62.8		ug/L		105	85 - 115	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene (1C)	*108*		*43 - 133*

Lab Sample ID: MB 410-316049/1-A
Matrix: Water
Analysis Batch: 316102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		11/10/22 08:10	11/10/22 08:26	1
Ethene (1C)	ND		5.0	1.0	ug/L		11/10/22 08:10	11/10/22 08:26	1
Methane (1C)	ND		5.0	3.0	ug/L		11/10/22 08:10	11/10/22 08:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*101*		*43 - 133*	*11/10/22 08:10*	*11/10/22 08:26*	*1*

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 410-316049/2-A
Matrix: Water
Analysis Batch: 316102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316049

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane (1C)			61.7	64.9		ug/L		105	85 - 115		
Ethene (1C)			58.3	61.3		ug/L		105	83 - 115		
Methane (1C)			59.8	66.7		ug/L		112	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*105*		*43 - 133*

Lab Sample ID: LCSD 410-316049/3-A
Matrix: Water
Analysis Batch: 316102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 316049

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)			61.7	64.4		ug/L		104	85 - 115	1	20
Ethene (1C)			58.3	60.5		ug/L		104	83 - 115	1	20
Methane (1C)			59.8	65.7		ug/L		110	85 - 115	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene (1C)	*102*		*43 - 133*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 410-317933/1-A
Matrix: Water
Analysis Batch: 318164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	ND		0.20	0.074	mg/L		11/15/22 19:50	11/16/22 12:48	1
>C28-C35 (1C)	ND		0.20	0.074	mg/L		11/15/22 19:50	11/16/22 12:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*93*		*43 - 131*	*11/15/22 19:50*	*11/16/22 12:48*	*1*

Lab Sample ID: LCS 410-317933/2-A
Matrix: Water
Analysis Batch: 318164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317933

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DRO (C10-C28) (1C)			1.60	1.54		mg/L		96	41 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o- terphenyl (Surr) (1C)	*101*		*43 - 131*

Lab Sample ID: LCSD 410-317933/3-A
Matrix: Water
Analysis Batch: 318164

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317933

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C28) (1C)			1.60	1.63		mg/L		102	41 - 115	6	20

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o- terphenyl (Surr) (1C)	106		43 - 131

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-319234/5
Matrix: Water
Analysis Batch: 319234

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			11/18/22 17:48	1
Chloride	ND		1.5	0.60	mg/L			11/18/22 17:48	1

Lab Sample ID: LCS 410-319234/3
Matrix: Water
Analysis Batch: 319234

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	7.26		mg/L		97	90 - 110
Chloride	3.00	2.89		mg/L		96	90 - 110

Lab Sample ID: LCSD 410-319234/4
Matrix: Water
Analysis Batch: 319234

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	7.23		mg/L		96	90 - 110	0	20
Chloride	3.00	2.90		mg/L		97	90 - 110	0	20

Lab Sample ID: MB 410-319742/5
Matrix: Water
Analysis Batch: 319742

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			11/21/22 10:19	1
Chloride	ND		1.5	0.60	mg/L			11/21/22 10:19	1

Lab Sample ID: LCS 410-319742/3
Matrix: Water
Analysis Batch: 319742

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	7.34		mg/L		98	90 - 110
Chloride	3.00	2.99		mg/L		100	90 - 110

Lab Sample ID: LCSD 410-319742/4
Matrix: Water
Analysis Batch: 319742

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	7.33		mg/L		98	90 - 110	0	20
Chloride	3.00	2.98		mg/L		99	90 - 110	0	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-317504/1-A
Matrix: Water
Analysis Batch: 319297

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 317504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		11/15/22 04:36	11/18/22 20:30	1
Aluminum	ND		30	12	ug/L		11/15/22 04:36	11/18/22 20:30	1
Arsenic	ND		2.0	0.68	ug/L		11/15/22 04:36	11/18/22 20:30	1
Barium	ND		2.0	0.75	ug/L		11/15/22 04:36	11/18/22 20:30	1
Beryllium	ND	^5-	0.50	0.12	ug/L		11/15/22 04:36	11/18/22 20:30	1
Cadmium	ND		0.50	0.15	ug/L		11/15/22 04:36	11/18/22 20:30	1
Calcium	ND		120	50	ug/L		11/15/22 04:36	11/18/22 20:30	1
Chromium	ND		2.0	0.33	ug/L		11/15/22 04:36	11/18/22 20:30	1
Cobalt	ND		0.50	0.16	ug/L		11/15/22 04:36	11/18/22 20:30	1
Copper	ND		1.0	0.36	ug/L		11/15/22 04:36	11/18/22 20:30	1
Iron	ND		50	20	ug/L		11/15/22 04:36	11/18/22 20:30	1
Lead	ND		0.50	0.071	ug/L		11/15/22 04:36	11/18/22 20:30	1
Magnesium	ND		50	16	ug/L		11/15/22 04:36	11/18/22 20:30	1
Manganese	ND		2.0	0.95	ug/L		11/15/22 04:36	11/18/22 20:30	1
Nickel	ND		1.0	0.40	ug/L		11/15/22 04:36	11/18/22 20:30	1
Potassium	ND		200	65	ug/L		11/15/22 04:36	11/18/22 20:30	1
Selenium	ND		1.0	0.28	ug/L		11/15/22 04:36	11/18/22 20:30	1
Silver	ND		0.50	0.10	ug/L		11/15/22 04:36	11/18/22 20:30	1
Sodium	103	J ^3+	200	90	ug/L		11/15/22 04:36	11/18/22 20:30	1
Thallium	ND		0.50	0.13	ug/L		11/15/22 04:36	11/18/22 20:30	1
Vanadium	ND		4.0	0.79	ug/L		11/15/22 04:36	11/18/22 20:30	1
Zinc	ND		10	4.0	ug/L		11/15/22 04:36	11/18/22 20:30	1

Lab Sample ID: MB 410-317504/1-A
Matrix: Water
Analysis Batch: 319393

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 317504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		11/15/22 04:36	11/19/22 19:57	1
Aluminum	ND		30	12	ug/L		11/15/22 04:36	11/19/22 19:57	1
Arsenic	ND		2.0	0.68	ug/L		11/15/22 04:36	11/19/22 19:57	1
Barium	ND		2.0	0.75	ug/L		11/15/22 04:36	11/19/22 19:57	1
Beryllium	ND		0.50	0.12	ug/L		11/15/22 04:36	11/19/22 19:57	1
Cadmium	ND		0.50	0.15	ug/L		11/15/22 04:36	11/19/22 19:57	1
Calcium	ND		120	50	ug/L		11/15/22 04:36	11/19/22 19:57	1
Chromium	ND		2.0	0.33	ug/L		11/15/22 04:36	11/19/22 19:57	1
Cobalt	ND		0.50	0.16	ug/L		11/15/22 04:36	11/19/22 19:57	1
Copper	ND		1.0	0.36	ug/L		11/15/22 04:36	11/19/22 19:57	1
Iron	ND		50	20	ug/L		11/15/22 04:36	11/19/22 19:57	1
Lead	ND		0.50	0.071	ug/L		11/15/22 04:36	11/19/22 19:57	1
Magnesium	ND		50	16	ug/L		11/15/22 04:36	11/19/22 19:57	1
Manganese	ND		2.0	0.95	ug/L		11/15/22 04:36	11/19/22 19:57	1
Nickel	ND		1.0	0.40	ug/L		11/15/22 04:36	11/19/22 19:57	1
Potassium	ND		200	65	ug/L		11/15/22 04:36	11/19/22 19:57	1
Selenium	ND		1.0	0.28	ug/L		11/15/22 04:36	11/19/22 19:57	1
Silver	ND		0.50	0.10	ug/L		11/15/22 04:36	11/19/22 19:57	1
Sodium	ND		200	90	ug/L		11/15/22 04:36	11/19/22 19:57	1
Thallium	ND		0.50	0.13	ug/L		11/15/22 04:36	11/19/22 19:57	1
Vanadium	ND		4.0	0.79	ug/L		11/15/22 04:36	11/19/22 19:57	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-317504/1-A
Matrix: Water
Analysis Batch: 319393

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 317504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	4.0	ug/L		11/15/22 04:36	11/19/22 19:57	1

Lab Sample ID: LCS 410-317504/2-A
Matrix: Water
Analysis Batch: 319297

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 317504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	97.1		ug/L		97	85 - 115
Aluminum	5000	4620		ug/L		92	85 - 115
Arsenic	500	474		ug/L		95	85 - 115
Barium	500	497		ug/L		99	85 - 115
Cadmium	50.0	49.6		ug/L		99	85 - 115
Calcium	5000	4790		ug/L		96	85 - 115
Chromium	500	484		ug/L		97	85 - 115
Cobalt	500	483		ug/L		97	85 - 115
Copper	500	477		ug/L		95	85 - 115
Iron	5000	4800		ug/L		96	85 - 115
Lead	50.0	48.3		ug/L		97	85 - 115
Magnesium	5000	4610		ug/L		92	85 - 115
Manganese	500	489		ug/L		98	85 - 115
Nickel	500	480		ug/L		96	85 - 115
Potassium	5000	4810		ug/L		96	85 - 115
Selenium	100	95.5		ug/L		95	85 - 115
Silver	50.0	48.2		ug/L		96	85 - 115
Thallium	100	95.6		ug/L		96	85 - 115
Vanadium	500	485		ug/L		97	85 - 115
Zinc	500	488		ug/L		98	85 - 115

Lab Sample ID: LCS 410-317504/2-A
Matrix: Water
Analysis Batch: 319393

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 317504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	97.5		ug/L		98	85 - 115
Aluminum	5000	4940		ug/L		99	85 - 115
Arsenic	500	472		ug/L		94	85 - 115
Barium	500	496		ug/L		99	85 - 115
Beryllium	50.0	49.3		ug/L		99	85 - 115
Cadmium	50.0	49.2		ug/L		98	85 - 115
Calcium	5000	5090		ug/L		102	85 - 115
Chromium	500	492		ug/L		98	85 - 115
Cobalt	500	466		ug/L		93	85 - 115
Copper	500	473		ug/L		95	85 - 115
Iron	5000	4840		ug/L		97	85 - 115
Lead	50.0	49.2		ug/L		98	85 - 115
Magnesium	5000	4920		ug/L		98	85 - 115
Manganese	500	490		ug/L		98	85 - 115
Nickel	500	480		ug/L		96	85 - 115
Potassium	5000	4910		ug/L		98	85 - 115

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-317504/2-A
Matrix: Water
Analysis Batch: 319393

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 317504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	100	97.1		ug/L		97	85 - 115
Silver	50.0	48.7		ug/L		97	85 - 115
Sodium	5000	5250		ug/L		105	85 - 115
Thallium	100	96.4		ug/L		96	85 - 115
Vanadium	500	484		ug/L		97	85 - 115
Zinc	500	490		ug/L		98	85 - 115

Lab Sample ID: MB 410-317505/1-A
Matrix: Water
Analysis Batch: 318877

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 317505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		11/15/22 04:42	11/17/22 18:11	1
Aluminum	ND		30	12	ug/L		11/15/22 04:42	11/17/22 18:11	1
Arsenic	ND		2.0	0.68	ug/L		11/15/22 04:42	11/17/22 18:11	1
Barium	ND		2.0	0.75	ug/L		11/15/22 04:42	11/17/22 18:11	1
Beryllium	ND		0.50	0.12	ug/L		11/15/22 04:42	11/17/22 18:11	1
Cadmium	ND		0.50	0.15	ug/L		11/15/22 04:42	11/17/22 18:11	1
Calcium	ND		120	50	ug/L		11/15/22 04:42	11/17/22 18:11	1
Chromium	ND		2.0	0.33	ug/L		11/15/22 04:42	11/17/22 18:11	1
Cobalt	0.182	J	0.50	0.16	ug/L		11/15/22 04:42	11/17/22 18:11	1
Copper	0.386	J	1.0	0.36	ug/L		11/15/22 04:42	11/17/22 18:11	1
Iron	ND		50	20	ug/L		11/15/22 04:42	11/17/22 18:11	1
Lead	ND		0.50	0.071	ug/L		11/15/22 04:42	11/17/22 18:11	1
Magnesium	22.3	J	50	16	ug/L		11/15/22 04:42	11/17/22 18:11	1
Manganese	6.80		2.0	0.95	ug/L		11/15/22 04:42	11/17/22 18:11	1
Nickel	ND		1.0	0.40	ug/L		11/15/22 04:42	11/17/22 18:11	1
Potassium	ND		200	65	ug/L		11/15/22 04:42	11/17/22 18:11	1
Selenium	ND		1.0	0.28	ug/L		11/15/22 04:42	11/17/22 18:11	1
Silver	ND		0.50	0.10	ug/L		11/15/22 04:42	11/17/22 18:11	1
Sodium	151	J	200	90	ug/L		11/15/22 04:42	11/17/22 18:11	1
Thallium	ND		0.50	0.13	ug/L		11/15/22 04:42	11/17/22 18:11	1
Vanadium	ND		4.0	0.79	ug/L		11/15/22 04:42	11/17/22 18:11	1
Zinc	ND		10	4.0	ug/L		11/15/22 04:42	11/17/22 18:11	1

Lab Sample ID: LCS 410-317505/2-A
Matrix: Water
Analysis Batch: 318877

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 317505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	101		ug/L		101	85 - 115
Aluminum	5000	5250		ug/L		105	85 - 115
Arsenic	500	502		ug/L		100	85 - 115
Barium	500	515		ug/L		103	85 - 115
Beryllium	50.0	52.5		ug/L		105	85 - 115
Cadmium	50.0	50.0		ug/L		100	85 - 115
Calcium	5000	4910		ug/L		98	85 - 115
Chromium	500	512		ug/L		102	85 - 115
Cobalt	500	489		ug/L		98	85 - 115

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-317505/2-A
Matrix: Water
Analysis Batch: 318877

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 317505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	500	516		ug/L		103	85 - 115
Iron	5000	5170		ug/L		103	85 - 115
Lead	50.0	51.9		ug/L		104	85 - 115
Magnesium	5000	5120		ug/L		102	85 - 115
Manganese	500	519		ug/L		104	85 - 115
Nickel	500	514		ug/L		103	85 - 115
Potassium	5000	5070		ug/L		101	85 - 115
Selenium	100	101		ug/L		101	85 - 115
Silver	50.0	50.5		ug/L		101	85 - 115
Sodium	5000	5020		ug/L		100	85 - 115
Thallium	100	104		ug/L		104	85 - 115
Vanadium	500	506		ug/L		101	85 - 115
Zinc	500	536		ug/L		107	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-316604/1-A
Matrix: Water
Analysis Batch: 316841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		11/11/22 09:31	11/11/22 18:53	1

Lab Sample ID: LCS 410-316604/2-A
Matrix: Water
Analysis Batch: 316841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.000997		mg/L		100	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-315924/1
Matrix: Water
Analysis Batch: 315924

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			11/09/22 20:57	1

Lab Sample ID: LCS 410-315924/2
Matrix: Water
Analysis Batch: 315924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil & Grease)	40.0	32.50		mg/L		81	78 - 114

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCSD 410-315924/3
Matrix: Water
Analysis Batch: 315924

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM (Oil & Grease)			40.0	32.90		mg/L		82	78 - 114	1	13

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-315877/3
Matrix: Water
Analysis Batch: 315877

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			11/09/22 18:05	1

Lab Sample ID: LCS 410-315877/4
Matrix: Water
Analysis Batch: 315877

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Turbidity			10.0	9.8		NTU		98	90 - 104		

Lab Sample ID: 410-104890-1 DU
Matrix: Groundwater
Analysis Batch: 315877

Client Sample ID: RCS Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Turbidity	45			50		NTU				2	8

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-316229/5
Matrix: Water
Analysis Batch: 316229

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			11/09/22 21:22	1

Lab Sample ID: LCS 410-316229/8
Matrix: Water
Analysis Batch: 316229

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			189	176		mg/L		93	82 - 106		

Lab Sample ID: MB 410-316232/15
Matrix: Water
Analysis Batch: 316232

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			11/09/22 21:03	1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-316232/17
Matrix: Water
Analysis Batch: 316232

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	189	182		mg/L		96	82 - 106

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-316445/32
Matrix: Water
Analysis Batch: 316445

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			11/10/22 12:58	1

Lab Sample ID: LCS 410-316445/34
Matrix: Water
Analysis Batch: 316445

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Hardness	40.0	39.9		mg/L		100	91 - 108

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-316230/41
Matrix: Water
Analysis Batch: 316230

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			11/10/22 00:41	1

Lab Sample ID: MB 410-316230/5
Matrix: Water
Analysis Batch: 316230

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			11/09/22 21:22	1

Lab Sample ID: LCS 410-316230/42
Matrix: Water
Analysis Batch: 316230

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1400		umhos/cm		99	97 - 103

Lab Sample ID: LCS 410-316230/6
Matrix: Water
Analysis Batch: 316230

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1420		umhos/cm		100	97 - 103

Method: 2540C - 2015 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-315661/1
Matrix: Water
Analysis Batch: 315661

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			11/09/22 11:05	1

Lab Sample ID: LCS 410-315661/2
Matrix: Water
Analysis Batch: 315661

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	212		mg/L		106	72 - 127

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-316281/1
Matrix: Water
Analysis Batch: 316281

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.0	1.0	mg/L			11/10/22 15:08	1

Lab Sample ID: LCS 410-316281/2
Matrix: Water
Analysis Batch: 316281

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	145		mg/L		96	89 - 105

Method: 2540F-2015 - Solids, Settleable

Lab Sample ID: MB 410-315761/1
Matrix: Water
Analysis Batch: 315761

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			11/09/22 14:06	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-318694/2-A
Matrix: Water
Analysis Batch: 319666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		11/17/22 13:00	11/18/22 16:04	1

Lab Sample ID: LCS 410-318694/1-A
Matrix: Water
Analysis Batch: 319666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	3.96	3.69		mg/L		93	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-316120/2-A
Matrix: Water
Analysis Batch: 316656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		11/10/22 09:51	11/11/22 08:43	1

Lab Sample ID: LCS 410-316120/1-A
Matrix: Water
Analysis Batch: 316656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as PO4	4.07	3.99		mg/L		98	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 410-315982/4
Matrix: Water
Analysis Batch: 315982

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			11/10/22 06:20	1

Lab Sample ID: LCS 410-315982/5
Matrix: Water
Analysis Batch: 315982

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	500	507		mg/L		101	94 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-316249/25
Matrix: Water
Analysis Batch: 316249

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/10/22 07:32	1

Lab Sample ID: MB 410-316249/58
Matrix: Water
Analysis Batch: 316249

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			11/10/22 09:11	1

Lab Sample ID: LCS 410-316249/56
Matrix: Water
Analysis Batch: 316249

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.258		mg/L		103	90 - 110

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 410-316249/57
Matrix: Water
Analysis Batch: 316249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total			0.250	0.260		mg/L		104	90 - 110	1	6

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-316231/7
Matrix: Water
Analysis Batch: 316231

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		S.U.		100	95 - 105		

Lab Sample ID: LCS 410-316233/16
Matrix: Water
Analysis Batch: 316233

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.1		S.U.		101	95 - 105		

Method: 5210 B-2011 - BOD, 5-Day

Lab Sample ID: SCB 410-318220/4
Matrix: Water
Analysis Batch: 318220

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.846		0.0000010	0.0000010	mg/L			11/09/22 13:20	1

Lab Sample ID: USB 410-318220/2
Matrix: Water
Analysis Batch: 318220

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		0.0000010	0.0000010	mg/L			11/09/22 13:20	1

Lab Sample ID: LCS 410-318220/27
Matrix: Water
Analysis Batch: 318220

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	182		mg/L		92	85 - 115		

Lab Sample ID: LCS 410-318220/5
Matrix: Water
Analysis Batch: 318220

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	186		mg/L		94	85 - 115		

GC/MS VOA

Analysis Batch: 316099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	624.1	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	624.1	
410-104890-3	QAQC_TB	Total/NA	Water	624.1	
MB 410-316099/5	Method Blank	Total/NA	Water	624.1	
LCS 410-316099/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-316099/1004	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 317254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1 - DL	RCS Influent	Total/NA	Groundwater	624.1	
MB 410-317254/5	Method Blank	Total/NA	Water	624.1	
LCS 410-317254/1003	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 318829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	8260D	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	8260D	
410-104890-3	QAQC_TB	Total/NA	Water	8260D	
MB 410-318829/6	Method Blank	Total/NA	Water	8260D	
LCS 410-318829/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 317595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	625.1	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	625.1	
MB 410-317595/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-317595/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCS 410-317595/4-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-317595/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
LCSD 410-317595/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 317855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	625.1	317595
410-104890-2	Receiving Water-001	Total/NA	Surface Water	625.1	317595
MB 410-317595/1-A	Method Blank	Total/NA	Water	625.1	317595
LCS 410-317595/2-A	Lab Control Sample	Total/NA	Water	625.1	317595
LCS 410-317595/4-A	Lab Control Sample	Total/NA	Water	625.1	317595
LCSD 410-317595/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	317595
LCSD 410-317595/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	317595

GC VOA

Analysis Batch: 315574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	RSK-175	315664
410-104890-2	Receiving Water-001	Total/NA	Surface Water	RSK-175	315664
MB 410-315664/1-A	Method Blank	Total/NA	Water	RSK-175	315664
LCS 410-315664/2-A	Lab Control Sample	Total/NA	Water	RSK-175	315664
LCSD 410-315664/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	315664

GC VOA

Prep Batch: 315664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	RSK-175	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	RSK-175	
MB 410-315664/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-315664/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-315664/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Prep Batch: 316049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1 - DL	RCS Influent	Total/NA	Groundwater	RSK-175	
MB 410-316049/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-316049/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-316049/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 316102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1 - DL	RCS Influent	Total/NA	Groundwater	RSK-175	316049
MB 410-316049/1-A	Method Blank	Total/NA	Water	RSK-175	316049
LCS 410-316049/2-A	Lab Control Sample	Total/NA	Water	RSK-175	316049
LCSD 410-316049/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	316049

Analysis Batch: 318146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	8015C	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	8015C	
MB 410-318146/4	Method Blank	Total/NA	Water	8015C	
LCS 410-318146/5	Lab Control Sample	Total/NA	Water	8015C	
LCSD 410-318146/6	Lab Control Sample Dup	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 317933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	3510C	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	3510C	
MB 410-317933/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-317933/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-317933/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 318164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	8015C	317933
410-104890-2	Receiving Water-001	Total/NA	Surface Water	8015C	317933
MB 410-317933/1-A	Method Blank	Total/NA	Water	8015C	317933
LCS 410-317933/2-A	Lab Control Sample	Total/NA	Water	8015C	317933
LCSD 410-317933/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	317933

HPLC/IC

Analysis Batch: 319234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	EPA 300.0 R2.1	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	EPA 300.0 R2.1	

HPLC/IC (Continued)

Analysis Batch: 319234 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-2	Receiving Water-001	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 410-319234/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-319234/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-319234/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 319742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-319742/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-319742/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-319742/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 316604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	245.1	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	245.1	
MB 410-316604/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-316604/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 316841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	245.1	316604
410-104890-2	Receiving Water-001	Total/NA	Surface Water	245.1	316604
MB 410-316604/1-A	Method Blank	Total/NA	Water	245.1	316604
LCS 410-316604/2-A	Lab Control Sample	Total/NA	Water	245.1	316604

Prep Batch: 317504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-2	Receiving Water-001	Total Recoverable	Surface Water	200.8 Rev 5.4	
MB 410-317504/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-317504/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Prep Batch: 317505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	
MB 410-317505/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-317505/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Analysis Batch: 318877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	317505
410-104890-1	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	317505
MB 410-317505/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	317505
LCS 410-317505/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	317505

Analysis Batch: 319297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-2	Receiving Water-001	Total Recoverable	Surface Water	200.8 Rev 5.4	317504
MB 410-317504/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	317504

Metals (Continued)

Analysis Batch: 319297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-317504/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	317504

Analysis Batch: 319393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-2	Receiving Water-001	Total Recoverable	Surface Water	200.8 Rev 5.4	317504
410-104890-2	Receiving Water-001	Total Recoverable	Surface Water	200.8 Rev 5.4	317504
MB 410-317504/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	317504
LCS 410-317504/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	317504

Analysis Batch: 319563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	317505

General Chemistry

Analysis Batch: 314463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	SM 2330B	

Analysis Batch: 315661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	2540C - 2015	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	2540C - 2015	
MB 410-315661/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-315661/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 315725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	353.2	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	353.2	

Analysis Batch: 315761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	2540F-2015	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	2540F-2015	
MB 410-315761/1	Method Blank	Total/NA	Water	2540F-2015	

Analysis Batch: 315877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	180.1	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	180.1	
MB 410-315877/3	Method Blank	Total/NA	Water	180.1	
LCS 410-315877/4	Lab Control Sample	Total/NA	Water	180.1	
410-104890-1 DU	RCS Influent	Total/NA	Groundwater	180.1	

Analysis Batch: 315924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	1664A	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	1664A	
MB 410-315924/1	Method Blank	Total/NA	Water	1664A	
LCS 410-315924/2	Lab Control Sample	Total/NA	Water	1664A	

General Chemistry (Continued)

Analysis Batch: 315924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-315924/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 315982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	410.4	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	410.4	
MB 410-315982/4	Method Blank	Total/NA	Water	410.4	
LCS 410-315982/5	Lab Control Sample	Total/NA	Water	410.4	

Prep Batch: 316120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	365.1	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	365.1	
MB 410-316120/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-316120/1-A	Lab Control Sample	Total/NA	Water	365.1	

Analysis Batch: 316229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	2320B-2011	
MB 410-316229/5	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-316229/8	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 316230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	2510B-2011	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	2510B-2011	
MB 410-316230/41	Method Blank	Total/NA	Water	2510B-2011	
MB 410-316230/5	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-316230/42	Lab Control Sample	Total/NA	Water	2510B-2011	
LCS 410-316230/6	Lab Control Sample	Total/NA	Water	2510B-2011	

Analysis Batch: 316231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	4500 H+ B-2011	
LCS 410-316231/7	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 316232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-2	Receiving Water-001	Total/NA	Surface Water	2320B-2011	
MB 410-316232/15	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-316232/17	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 316233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-2	Receiving Water-001	Total/NA	Surface Water	4500 H+ B-2011	
LCS 410-316233/16	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 316249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	420.4	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	420.4	

General Chemistry (Continued)

Analysis Batch: 316249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-316249/25	Method Blank	Total/NA	Water	420.4	
MB 410-316249/58	Method Blank	Total/NA	Water	420.4	
LCS 410-316249/56	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-316249/57	Lab Control Sample Dup	Total/NA	Water	420.4	

Analysis Batch: 316281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	2540D-2015	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	2540D-2015	
MB 410-316281/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-316281/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 316445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	2340C-2011	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	2340C-2011	
MB 410-316445/32	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-316445/34	Lab Control Sample	Total/NA	Water	2340C-2011	

Analysis Batch: 316656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	365.1	316120
410-104890-2	Receiving Water-001	Total/NA	Surface Water	365.1	316120
MB 410-316120/2-A	Method Blank	Total/NA	Water	365.1	316120
LCS 410-316120/1-A	Lab Control Sample	Total/NA	Water	365.1	316120

Analysis Batch: 318220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	5210 B-2011	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	5210 B-2011	
SCB 410-318220/4	Method Blank	Total/NA	Water	5210 B-2011	
USB 410-318220/2	Method Blank	Total/NA	Water	5210 B-2011	
LCS 410-318220/27	Lab Control Sample	Total/NA	Water	5210 B-2011	
LCS 410-318220/5	Lab Control Sample	Total/NA	Water	5210 B-2011	

Prep Batch: 318694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	351.2	
410-104890-2	Receiving Water-001	Total/NA	Surface Water	351.2	
MB 410-318694/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-318694/1-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 319666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-104890-1	RCS Influent	Total/NA	Groundwater	351.2	318694
410-104890-2	Receiving Water-001	Total/NA	Surface Water	351.2	318694
MB 410-318694/2-A	Method Blank	Total/NA	Water	351.2	318694
LCS 410-318694/1-A	Lab Control Sample	Total/NA	Water	351.2	318694

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: RCS Influent

Date Collected: 11/08/22 09:20
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-1

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	316099	USEJ	ELLE	11/10/22 12:35
Total/NA	Analysis	624.1	DL	10	317254	TQ4J	ELLE	11/14/22 16:37
Total/NA	Analysis	8260D		1	318829	K4WN	ELLE	11/18/22 03:31
Total/NA	Prep	625.1			317595	YDF5	ELLE	11/15/22 08:17
Total/NA	Analysis	625.1		1	317855	SJ89	ELLE	11/16/22 01:17
Total/NA	Analysis	8015C		1	318146	NND8	ELLE	11/16/22 14:18
Total/NA	Prep	RSK-175			315664	MB4Z	ELLE	11/09/22 11:17
Total/NA	Analysis	RSK-175		1	315574	MB4Z	ELLE	11/09/22 14:35
Total/NA	Prep	RSK-175	DL		316049	LXF2	ELLE	11/10/22 08:10
Total/NA	Analysis	RSK-175	DL	10	316102	LXF2	ELLE	11/10/22 13:19
Total/NA	Prep	3510C			317933	K2IL	ELLE	11/15/22 19:50
Total/NA	Analysis	8015C		1	318164	IUSB	ELLE	11/16/22 16:49
Total/NA	Analysis	EPA 300.0 R2.1		100	319234	L4QM	ELLE	11/18/22 20:14
Total/NA	Analysis	EPA 300.0 R2.1		500	319742	L4QM	ELLE	11/21/22 15:38
Total Recoverable	Prep	200.8 Rev 5.4			317505	UAMX	ELLE	11/15/22 04:42
Total Recoverable	Analysis	200.8 Rev 5.4		1	318877	UCIG	ELLE	11/17/22 18:30
Total Recoverable	Prep	200.8 Rev 5.4			317505	UAMX	ELLE	11/15/22 04:42
Total Recoverable	Analysis	200.8 Rev 5.4		10	318877	UCIG	ELLE	11/17/22 19:01
Total Recoverable	Prep	200.8 Rev 5.4			317505	UAMX	ELLE	11/15/22 04:42
Total Recoverable	Analysis	200.8 Rev 5.4		1	319563	F7JF	ELLE	11/20/22 12:33
Total/NA	Prep	245.1			316604	UAMX	ELLE	11/11/22 09:31
Total/NA	Analysis	245.1		1	316841	UEFS	ELLE	11/11/22 19:07
Total/NA	Analysis	1664A		1	315924	QT6L	ELLE	11/09/22 20:57
Total/NA	Analysis	180.1		4	315877	UDS7	ELLE	11/09/22 18:05
Total/NA	Analysis	2320B-2011		1	316229	DI9Q	ELLE	11/10/22 00:06
Total/NA	Analysis	2340C-2011		10	316445	USAE	ELLE	11/10/22 13:47
Total/NA	Analysis	2510B-2011		1	316230	DI9Q	ELLE	11/10/22 00:06
Total/NA	Analysis	2540C - 2015		1	315661	M98K	ELLE	11/09/22 11:05
Total/NA	Analysis	2540D-2015		1	316281	UOCA	ELLE	11/10/22 15:08
Total/NA	Analysis	2540F-2015		1	315761	DI9Q	ELLE	11/09/22 14:06
Total/NA	Prep	351.2			318694	NLE3	ELLE	11/17/22 13:00 - 11/17/22 16:00 [1]
Total/NA	Analysis	351.2		1	319666	JCG7	ELLE	11/18/22 16:12
Total/NA	Analysis	353.2		1	315725	UKJF	ELLE	11/09/22 12:37
Total/NA	Prep	365.1			316120	CBM8	ELLE	11/10/22 09:51
Total/NA	Analysis	365.1		1	316656	CBM8	ELLE	11/11/22 08:44
Total/NA	Analysis	410.4		1	315982	USAE	ELLE	11/10/22 06:20
Total/NA	Analysis	420.4		1	316249	CBM8	ELLE	11/10/22 09:44
Total/NA	Analysis	4500 H+ B-2011		1	316231	DI9Q	ELLE	11/10/22 00:06
Total/NA	Analysis	5210 B-2011		1	318220	TI24	ELLE	11/09/22 17:46
Total/NA	Analysis	SM 2330B		1	314463	USJM	ELLE	11/13/22 12:38

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Client Sample ID: Receiving Water-001

Date Collected: 11/08/22 10:25
Date Received: 11/08/22 20:00

Lab Sample ID: 410-104890-2

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	316099	USEJ	ELLE	11/10/22 12:13
Total/NA	Analysis	8260D		1	318829	K4WN	ELLE	11/18/22 03:51
Total/NA	Prep	625.1			317595	YDF5	ELLE	11/15/22 08:17
Total/NA	Analysis	625.1		1	317855	SJ89	ELLE	11/16/22 01:38
Total/NA	Analysis	8015C		1	318146	NND8	ELLE	11/16/22 14:43
Total/NA	Prep	RSK-175			315664	MB4Z	ELLE	11/09/22 11:17
Total/NA	Analysis	RSK-175		1	315574	MB4Z	ELLE	11/09/22 14:50
Total/NA	Prep	3510C			317933	K2IL	ELLE	11/15/22 19:50
Total/NA	Analysis	8015C		1	318164	IUSB	ELLE	11/16/22 15:22
Total/NA	Analysis	EPA 300.0 R2.1		500	319234	L4QM	ELLE	11/18/22 22:49
Total/NA	Analysis	EPA 300.0 R2.1		5000	319234	L4QM	ELLE	11/18/22 22:57
Total Recoverable	Prep	200.8 Rev 5.4			317504	UAMX	ELLE	11/15/22 04:36
Total Recoverable	Analysis	200.8 Rev 5.4		1	319297	S4PD	ELLE	11/18/22 20:56
Total Recoverable	Prep	200.8 Rev 5.4			317504	UAMX	ELLE	11/15/22 04:36
Total Recoverable	Analysis	200.8 Rev 5.4		1	319393	S4PD	ELLE	11/19/22 20:03
Total Recoverable	Prep	200.8 Rev 5.4			317504	UAMX	ELLE	11/15/22 04:36
Total Recoverable	Analysis	200.8 Rev 5.4		100	319393	S4PD	ELLE	11/19/22 20:09
Total/NA	Prep	245.1			316604	UAMX	ELLE	11/11/22 09:31
Total/NA	Analysis	245.1		1	316841	UEFS	ELLE	11/11/22 19:18
Total/NA	Analysis	1664A		1	315924	QT6L	ELLE	11/09/22 20:57
Total/NA	Analysis	180.1		1	315877	UDS7	ELLE	11/09/22 18:05
Total/NA	Analysis	2320B-2011		1	316232	DI9Q	ELLE	11/09/22 22:06
Total/NA	Analysis	2340C-2011		25	316445	USAE	ELLE	11/10/22 16:15
Total/NA	Analysis	2510B-2011		10	316230	DI9Q	ELLE	11/10/22 02:46
Total/NA	Analysis	2540C - 2015		1	315661	M98K	ELLE	11/09/22 11:07
Total/NA	Analysis	2540D-2015		1	316281	UOCA	ELLE	11/10/22 15:08
Total/NA	Analysis	2540F-2015		1	315761	DI9Q	ELLE	11/09/22 14:06
Total/NA	Prep	351.2			318694	NLE3	ELLE	11/17/22 13:00 - 11/17/22 16:00 [1]
Total/NA	Analysis	351.2		1	319666	JCG7	ELLE	11/18/22 16:14
Total/NA	Analysis	353.2		1	315725	UKJF	ELLE	11/09/22 12:37
Total/NA	Prep	365.1			316120	CBM8	ELLE	11/10/22 09:51
Total/NA	Analysis	365.1		1	316656	CBM8	ELLE	11/11/22 08:44
Total/NA	Analysis	410.4		10	315982	USAE	ELLE	11/10/22 06:20
Total/NA	Analysis	420.4		10	316249	CBM8	ELLE	11/10/22 10:47
Total/NA	Analysis	4500 H+ B-2011		1	316233	DI9Q	ELLE	11/09/22 22:06
Total/NA	Analysis	5210 B-2011		1	318220	TI24	ELLE	11/09/22 17:46

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104890-1
Project/Site: EMGPRP-31097

Client Sample ID: QAQC_TB
Lab Sample ID: 410-104890-3

Date Collected: 11/08/22 00:00
Matrix: Water
Date Received: 11/08/22 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	316099	USEJ	ELLE	11/10/22 11:28
Total/NA	Analysis	8260D		1	318829	K4WN	ELLE	11/18/22 00:14

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104890-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

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
200.8 Rev 5.4	200.8 Rev 5.4	Groundwater	Silver
200.8 Rev 5.4	200.8 Rev 5.4	Surface Water	Silver
2340C-2011		Groundwater	Total Hardness
2340C-2011		Surface Water	Total Hardness
365.1	365.1	Groundwater	Total Phosphorus as PO4
365.1	365.1	Surface Water	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
4500 H+ B-2011		Surface Water	pH
4500 H+ B-2011		Surface Water	Temperature
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile
624.1		Groundwater	Methyl iodide

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104890-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane
624.1		Groundwater	n-Propyl acetate
624.1		Groundwater	N-Propylbenzene
624.1		Groundwater	p-Isopropyltoluene
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Surface Water	1,1,1,2-Tetrachloroethane
624.1		Surface Water	1,1-Dichloropropene
624.1		Surface Water	1,2,3-Trichlorobenzene
624.1		Surface Water	1,2,3-Trichloropropane
624.1		Surface Water	1,2,4-Trichlorobenzene
624.1		Surface Water	1,2,4-Trimethylbenzene
624.1		Surface Water	1,2-Dibromo-3-Chloropropane
624.1		Surface Water	1,2-Dibromoethane
624.1		Surface Water	1,2-Dichloroethene (total)
624.1		Surface Water	1,3,5-Trimethylbenzene
624.1		Surface Water	1,3-Dichloropropane
624.1		Surface Water	1,4-Dioxane
624.1		Surface Water	2,2-Dichloropropane
624.1		Surface Water	2-Chloro-1,3-butadiene
624.1		Surface Water	2-Chlorotoluene
624.1		Surface Water	2-Hexanone
624.1		Surface Water	2-Propanol
624.1		Surface Water	4-Chlorotoluene
624.1		Surface Water	Benzyl chloride
624.1		Surface Water	Bromobenzene
624.1		Surface Water	Butyl acetate
624.1		Surface Water	Carbon disulfide
624.1		Surface Water	Cyclohexane
624.1		Surface Water	Dibromomethane
624.1		Surface Water	Dichlorofluoromethane
624.1		Surface Water	di-Isopropyl ether
624.1		Surface Water	Ethyl methacrylate
624.1		Surface Water	Ethyl t-butyl ether
624.1		Surface Water	Freon 123a
624.1		Surface Water	Hexachlorobutadiene
624.1		Surface Water	Isobutyl alcohol
624.1		Surface Water	Isopropyl acetate
624.1		Surface Water	Isopropylbenzene
624.1		Surface Water	Methacrylonitrile
624.1		Surface Water	Methyl iodide

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104890-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Surface Water	Methyl methacrylate
624.1		Surface Water	n-Butylbenzene
624.1		Surface Water	n-Heptane
624.1		Surface Water	n-Hexane
624.1		Surface Water	n-Propyl acetate
624.1		Surface Water	N-Propylbenzene
624.1		Surface Water	p-Isopropyltoluene
624.1		Surface Water	Propionitrile
624.1		Surface Water	sec-Butylbenzene
624.1		Surface Water	t-Amyl methyl ether
624.1		Surface Water	tert-Butylbenzene
624.1		Surface Water	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
625.1	625.1	Surface Water	1,1'-Biphenyl
625.1	625.1	Surface Water	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Surface Water	1,2-Dichlorobenzene
625.1	625.1	Surface Water	1,3-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dioxane
625.1	625.1	Surface Water	1-Methylnaphthalene
625.1	625.1	Surface Water	1-Methylphenanthrene

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104890-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date

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
625.1	625.1	Surface Water	2,3,4,6-Tetrachlorophenol
625.1	625.1	Surface Water	2,6-Dichlorophenol
625.1	625.1	Surface Water	2-Nitroaniline
625.1	625.1	Surface Water	3-Nitroaniline
625.1	625.1	Surface Water	4-Chloroaniline
625.1	625.1	Surface Water	4-Nitroaniline
625.1	625.1	Surface Water	Benzoic acid
625.1	625.1	Surface Water	Benzyl alcohol
625.1	625.1	Surface Water	Dibenzofuran
625.1	625.1	Surface Water	Diphenyl ether
625.1	625.1	Surface Water	n-Docosane
625.1	625.1	Surface Water	n-Eicosane
625.1	625.1	Surface Water	n-Hexadecane
625.1	625.1	Surface Water	N-Nitrosodiethylamine
625.1	625.1	Surface Water	N-Nitrosodi-n-butylamine
625.1	625.1	Surface Water	N-Nitrosopyrrolidine
625.1	625.1	Surface Water	n-Tetradecane
625.1	625.1	Surface Water	o-Toluidine
625.1	625.1	Surface Water	Pentachlorobenzene
8015C	3510C	Groundwater	>C28-C35 (1C)
8015C	3510C	Surface Water	>C28-C35 (1C)
SM 2330B		Groundwater	Langelier Index

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-104890-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	MCAWW	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C - 2015	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
2540F-2015	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	MCAWW	ELLE
420.4	Phenolics, Total Recoverable	MCAWW	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2011	BOD, 5-Day	SM	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater ", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-104890-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-104890-1	RCS Influent	Groundwater	11/08/22 09:20	11/08/22 20:00
410-104890-2	Receiving Water-001	Surface Water	11/08/22 10:25	11/08/22 20:00
410-104890-3	QAQC_TB	Water	11/08/22 00:00	11/08/22 20:00

Chain of Custody

410-104890 Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13438

EMEC-Eurofins Agreement # A2004415

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.		
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097
Consultant PM:	Courtney Lind	P.O. #:	0172.0030Y080 WAL# 4847
Sampler:	NK	XOM PM:	Michael J Burghardt
Bill to:	☐ XOM ☑ Consultant		
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water: Potable	Ground	NPDES	Surface	Other: Trip Blank	Total # of Containers
RCS INFLUENT	11/8/2022	9:20	X					X					32
RECEIVING-WATER-001	11/8/2022	10:25	X							X			32
QAQC_TB	11/8/2022	–										X	4

Analyses Requested — Preservation and Filtration Codes

Preservation	H	N				S	S		S					N	H	H	H	H
	VOCs (624.1) MEK, Acetone, MTBE	200.8, 245.1	625.1_PREC - (MOD) Priority Pollutants SVOCs	300_ORGFM_28D - (MOD) Chloride/Sulfate	SM5210B_Calc - BOD, 5-Day Only	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved	351.2, 365.1, 410.4	2320B, 2510B, 2540C_SingleDry,	420.4 - Phenols	353.2_Nitrite - Nitrogen, Nitrite	2540D_Single_Dry - TSS	SM2540F - Settleable Solids	Turbidity (180.1)	SM2330B - Local Method	2340C - Local Method	Oil&Grease (1664A)	RSK_175 Methane Ethane Ethene	8015C TPH-DRO/ORO Standard TPH-DRO/ORO	TPH-GRO (8015) #10598
RCS INFLUENT	6	1	2	1	1	1	2	2	1	1	1	1	1	1	2	2	2	3
RECEIVING-WATER-001	6	1	2	1	1	1	2	2	1	1	1	1	1	1	2	2	2	3
QAQC_TB	4																	

For Lab Use Only: SF #: _____ SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): 5 day 4day 72hour 48hour 24hour

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ OTHER

Type III (Reduced non-CLP/NJ Reduced) ☐ Standard with QC summary

TX TRRP-13 ☐

NJ DKQP ☐

NYSDEC Category ☐ A ☐ B

EDD Format(s) Needed: EQuIS and Excel

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	11/8/22	15:30	Stan King	11/8/22	15:30
2	Stan King	11/8/22	20:00			
3						
4						
5				[signature]	11/8/22	2000

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt 8.5-8.9 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

SR

All rec'd same day as coll.

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-104890-1

Login Number: 104890

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Roth, Stephanie

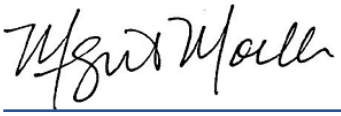
Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Megan Moeller, Client Services Manager
Megan.Moeller@et.eurofinsus.com
(717)556-7261

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

· 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 is performed, unless otherwise specified in the method.

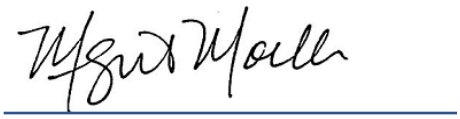
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

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

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



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ANALYTICAL REPORT

PREPARED FOR

Attn: Matthew Mueller
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

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JOB DESCRIPTION

EMGPRP-31097

JOB NUMBER

410-144543-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

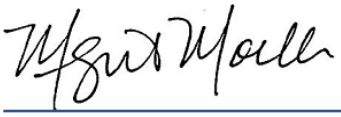
See page two for job notes and contact information.

Job Notes

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Megan Moeller, Client Services Manager
Megan.Moeller@et.eurofinsus.com
(717)556-7261

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

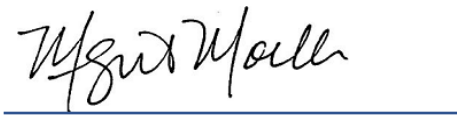

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery 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
cn	Refer to Case Narrative for further detail
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144543-1

Job ID: 410-144543-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-144543-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers 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 9/27/2023 7:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions
Method SW-846 8260D is not a promulgated method for the analysis of regulatory samples (NPDES) in GW under 40 CFR.
ORS-EFFLUENT (410-144543-1)

Insufficient sample volume was provided for the following sample for the 624 and 8260 analysis: QAQC_TB (410-144543-2). Due to the laboratory receiving only one HCl vial, the sample was only analyzed for 624.

GC/MS VOA
Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: ORS-EFFLUENT (410-144543-1) and QAQC_TB (410-144543-2). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile , which are acid-labile compounds that degrade in an acidic medium.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-426971 recovered outside acceptance criteria, low biased, for Acetone. A reporting limit (RL) standard was analyzed and non-detections of the affected analytes are reported. Any detections are considered estimated.

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

GC/MS Semi VOA
Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 410-427045 recovered above the upper control limit for 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, Benzoic acid and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 410-144543-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144543-1

Client Sample ID: ORS-EFFLUENT — Lab Sample ID: 410-144543-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.84	J	1.0	0.30	ug/L	1		624.1	Total/NA
1,2-Dichloroethene (total)	0.90	J	1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	0.90	J	1.0	0.20	ug/L	1		624.1	Total/NA
Tetrachloroethene	0.63	J	1.0	0.30	ug/L	1		624.1	Total/NA
Trichloroethene	0.86	J	1.0	0.20	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	4.1		1.0	0.20	ug/L	1		8260D	Total/NA
Acetone	0.83	J cn	20	0.70	ug/L	1		8260D	Total/NA
Sulfate	120		30	10	mg/L	20		EPA 300.0 R2.1	Total/NA
Chloride	500		300	120	mg/L	200		EPA 300.0 R2.1	Total/NA
Arsenic	0.95	J	2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	200		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	140000		600	250	ug/L	5		200.8 Rev 5.4	Total Recoverable
Cobalt	1.8		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	0.45	J B	1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	650		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	50000		50	16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2100		2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	3.3		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	6500		200	65	ug/L	1		200.8 Rev 5.4	Total Recoverable
Selenium	1.7		1.0	0.28	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	340000		1000	450	ug/L	5		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	1.8	J	5.4	1.5	mg/L	1		1664A	Total/NA
Turbidity	3.1		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	370		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	540		100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	2500		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	1200		240	96	mg/L	1		2540C - 2015	Total/NA
Total Kjeldahl Nitrogen	1.1		1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	1.1		0.10	0.040	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	49	J	75	25	mg/L	1		410.4	Total/NA
pH	8.3	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	22.0	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Total Organic Carbon	3200		1000	500	ug/L	1		9060A	Total/NA
TOC Result 1	3000		1000	500	ug/L	1		9060A	Total/NA
TOC Result 2	3300		1000	500	ug/L	1		9060A	Total/NA
TOC Result 3	3200		1000	500	ug/L	1		9060A	Total/NA
TOC Result 4	3300		1000	500	ug/L	1		9060A	Total/NA
Langelier Index	1.4				LangSU	1		SM 2330B	Total/NA

Client Sample ID: QAQC_TB — Lab Sample ID: 410-144543-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144543-1

Client Sample ID: ORS-EFFLUENT
Date Collected: 09/27/23 08:50
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144543-1
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/28/23 17:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/28/23 17:37	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/28/23 17:37	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/28/23 17:37	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/28/23 17:37	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/28/23 17:37	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,2-Dichloroethane	**0.84**	**J**	1.0	0.30	ug/L			09/28/23 17:37	1
1,2-Dichloroethene (total)	**0.90**	**J**	1.0	0.20	ug/L			09/28/23 17:37	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/28/23 17:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
1,4-Dioxane	ND		100	82	ug/L			09/28/23 17:37	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/28/23 17:37	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/28/23 17:37	1
2-Chloroethyl vinyl ether	ND	F1 cn	1.0	0.50	ug/L			09/28/23 17:37	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/28/23 17:37	1
2-Hexanone	ND		2.0	0.50	ug/L			09/28/23 17:37	1
2-Propanol	ND		20	8.0	ug/L			09/28/23 17:37	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/28/23 17:37	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/28/23 17:37	1
Acetonitrile	ND		50	14	ug/L			09/28/23 17:37	1
Benzene	ND		1.0	0.25	ug/L			09/28/23 17:37	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/28/23 17:37	1
Bromobenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/28/23 17:37	1
Bromoform	ND		1.0	0.30	ug/L			09/28/23 17:37	1
Bromomethane	ND		1.0	0.44	ug/L			09/28/23 17:37	1
Butyl acetate	ND		5.0	0.60	ug/L			09/28/23 17:37	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/28/23 17:37	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/28/23 17:37	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Chloroethane	ND		1.0	0.44	ug/L			09/28/23 17:37	1
Chloroform	ND		1.0	0.30	ug/L			09/28/23 17:37	1
Chloromethane	ND		1.0	0.64	ug/L			09/28/23 17:37	1
cis-1,2-Dichloroethene	**0.90**	**J**	1.0	0.20	ug/L			09/28/23 17:37	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Cyclohexane	ND		1.0	0.30	ug/L			09/28/23 17:37	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Dibromomethane	ND		1.0	0.20	ug/L			09/28/23 17:37	1

Client Sample ID: ORS-EFFLUENT
Date Collected: 09/27/23 08:50
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144543-1
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/28/23 17:37	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/28/23 17:37	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/28/23 17:37	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/28/23 17:37	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/28/23 17:37	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Freon 113	ND		1.0	0.30	ug/L			09/28/23 17:37	1
Freon 123a	ND		1.0	0.44	ug/L			09/28/23 17:37	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Isobutyl alcohol	ND		50	12	ug/L			09/28/23 17:37	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/28/23 17:37	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/28/23 17:37	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/28/23 17:37	1
Methacrylonitrile	ND		10	2.0	ug/L			09/28/23 17:37	1
Methyl iodide	ND		1.0	0.30	ug/L			09/28/23 17:37	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/28/23 17:37	1
Naphthalene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
n-Heptane	ND		1.0	0.40	ug/L			09/28/23 17:37	1
n-Hexane	ND		1.0	0.46	ug/L			09/28/23 17:37	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/28/23 17:37	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
o-Xylene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Propionitrile	ND		20	8.5	ug/L			09/28/23 17:37	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Styrene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/28/23 17:37	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/28/23 17:37	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Tetrachloroethene	**0.63**	**J**	1.0	0.30	ug/L			09/28/23 17:37	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/28/23 17:37	1
Toluene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/28/23 17:37	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/28/23 17:37	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/28/23 17:37	1
Trichloroethene	**0.86**	**J**	1.0	0.20	ug/L			09/28/23 17:37	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/28/23 17:37	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/28/23 17:37	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/28/23 17:37	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/28/23 17:37	1
Acrolein	ND	cn	10	3.0	ug/L			09/28/23 17:37	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			09/28/23 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*09/28/23 17:37*	*1*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*09/28/23 17:37*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*09/28/23 17:37*	*1*

Client Sample ID: ORS-EFFLUENT
Date Collected: 09/27/23 08:50
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144543-1
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*60 - 140*		*09/28/23 17:37*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**4.1**		1.0	0.20	ug/L			10/04/23 05:53	1
Acetone	**0.83**	**J cn**	20	0.70	ug/L			10/04/23 05:53	1
2-Butanone	ND		10	0.50	ug/L			10/04/23 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*10/04/23 05:53*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*10/04/23 05:53*	*1*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*10/04/23 05:53*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/04/23 05:53*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
1,2,4,5-Tetrachlorobenzene	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
1,2,4-Trichlorobenzene	ND		1.1	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
1,2-Dichlorobenzene	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
1,2-Diphenylhydrazine	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
1,3-Dichlorobenzene	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
1,4-Dichlorobenzene	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
1,4-Dioxane	ND		5.5	2.2	ug/L		10/03/23 15:34	10/04/23 16:23	1
1-Methylnaphthalene	ND		5.5	0.39	ug/L		10/03/23 15:34	10/04/23 16:23	1
1-Methylphenanthrene	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2,2'-oxybis[1-chloropropane]	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2,3,4,6-Tetrachlorophenol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2,3-Dichloroaniline	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2,4,5-Trichlorophenol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2,4,6-Trichlorophenol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2,4-Dichlorophenol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2,4-Dimethylphenol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2,4-Dinitrophenol	ND		11	2.2	ug/L		10/03/23 15:34	10/04/23 16:23	1
2,4-Dinitrotoluene	ND	cn	5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2,6-Dichlorophenol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2,6-Dinitrotoluene	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2-Chloronaphthalene	ND		5.5	1.1	ug/L		10/03/23 15:34	10/04/23 16:23	1
2-Chlorophenol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2-Methylnaphthalene	ND		5.5	0.22	ug/L		10/03/23 15:34	10/04/23 16:23	1
2-Methylphenol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2-Nitroaniline	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
2-Nitrophenol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
3,3'-Dichlorobenzidine	ND		5.5	0.88	ug/L		10/03/23 15:34	10/04/23 16:23	1
3-Nitroaniline	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
4,6-Dinitro-2-methylphenol	ND	cn	11	2.2	ug/L		10/03/23 15:34	10/04/23 16:23	1
4-Bromophenyl-phenylether	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
4-Chloro-3-methylphenol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
4-Chloroaniline	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
4-Chlorophenyl-phenylether	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144543-1

Client Sample ID: ORS-EFFLUENT
Date Collected: 09/27/23 08:50
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144543-1
Matrix: Groundwater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
4-Nitroaniline	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
4-Nitrophenol	ND		5.5	0.99	ug/L		10/03/23 15:34	10/04/23 16:23	1
Acenaphthene	ND		5.5	0.28	ug/L		10/03/23 15:34	10/04/23 16:23	1
Acenaphthylene	ND		5.5	0.22	ug/L		10/03/23 15:34	10/04/23 16:23	1
Acetophenone	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Aniline	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Anthracene	ND		5.5	0.28	ug/L		10/03/23 15:34	10/04/23 16:23	1
a-Terpineol	ND		5.5	0.66	ug/L		10/03/23 15:34	10/04/23 16:23	1
Benzidine	ND		66	6.6	ug/L		10/03/23 15:34	10/04/23 16:23	1
Benzo[a]anthracene	ND		5.5	0.28	ug/L		10/03/23 15:34	10/04/23 16:23	1
Benzo[a]pyrene	ND		5.5	0.28	ug/L		10/03/23 15:34	10/04/23 16:23	1
Benzo[b]fluoranthene	ND		5.5	0.28	ug/L		10/03/23 15:34	10/04/23 16:23	1
Benzo[g,h,i]perylene	ND		5.5	0.33	ug/L		10/03/23 15:34	10/04/23 16:23	1
Benzo[k]fluoranthene	ND		5.5	0.22	ug/L		10/03/23 15:34	10/04/23 16:23	1
Benzoic acid	ND	cn	33	4.4	ug/L		10/03/23 15:34	10/04/23 16:23	1
Benzyl alcohol	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Bis(2-chloroethoxy)methane	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Bis(2-chloroethyl)ether	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Bis(2-ethylhexyl) phthalate	ND		5.5	1.1	ug/L		10/03/23 15:34	10/04/23 16:23	1
Butylbenzylphthalate	ND		5.5	1.1	ug/L		10/03/23 15:34	10/04/23 16:23	1
Carbazole	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Chrysene	ND		5.5	0.22	ug/L		10/03/23 15:34	10/04/23 16:23	1
Dibenz(a,h)anthracene	ND		5.5	0.33	ug/L		10/03/23 15:34	10/04/23 16:23	1
Dibenzofuran	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Diethylphthalate	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Dimethylphthalate	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Di-n-butyl phthalate	ND		5.5	1.1	ug/L		10/03/23 15:34	10/04/23 16:23	1
Di-n-octyl phthalate	ND	cn	5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Diphenyl ether	ND		5.5	0.83	ug/L		10/03/23 15:34	10/04/23 16:23	1
Fluoranthene	ND		5.5	0.22	ug/L		10/03/23 15:34	10/04/23 16:23	1
Fluorene	ND		5.5	0.22	ug/L		10/03/23 15:34	10/04/23 16:23	1
Hexachlorobenzene	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Hexachlorobutadiene	ND		2.2	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Hexachlorocyclopentadiene	ND		17	3.3	ug/L		10/03/23 15:34	10/04/23 16:23	1
Hexachloroethane	ND		2.2	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Indeno[1,2,3-cd]pyrene	ND		5.5	0.33	ug/L		10/03/23 15:34	10/04/23 16:23	1
Isophorone	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Naphthalene	ND		2.2	0.33	ug/L		10/03/23 15:34	10/04/23 16:23	1
n-Decane	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
n-Docosane	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
n-Eicosane	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
n-Hexadecane	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Nitrobenzene	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
N-Nitrosodiethylamine	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
N-Nitrosodimethylamine	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
N-Nitrosodi-n-butylamine	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
N-Nitrosodi-n-propylamine	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
N-Nitrosodiphenylamine	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1

Client Sample ID: ORS-EFFLUENT
Date Collected: 09/27/23 08:50
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144543-1
Matrix: Groundwater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
n-Octadecane	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
n-Tetradecane	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
o-Toluidine	ND		5.5	1.1	ug/L		10/03/23 15:34	10/04/23 16:23	1
Pentachlorobenzene	ND		5.5	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Pentachlorophenol	ND		5.5	0.88	ug/L		10/03/23 15:34	10/04/23 16:23	1
Phenanthrene	ND		5.5	0.22	ug/L		10/03/23 15:34	10/04/23 16:23	1
Phenol	ND		1.1	0.55	ug/L		10/03/23 15:34	10/04/23 16:23	1
Pyrene	ND		5.5	0.28	ug/L		10/03/23 15:34	10/04/23 16:23	1
Pyridine	ND		11	0.88	ug/L		10/03/23 15:34	10/04/23 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*16*		*10 - 150*	*10/03/23 15:34*	*10/04/23 16:23*	*1*
2-Fluorobiphenyl (Surr)	*80*		*32 - 115*	*10/03/23 15:34*	*10/04/23 16:23*	*1*
2-Fluorophenol (Surr)	*4*	*S1-*	*10 - 83*	*10/03/23 15:34*	*10/04/23 16:23*	*1*
Nitrobenzene-d5 (Surr)	*71*		*41 - 121*	*10/03/23 15:34*	*10/04/23 16:23*	*1*
Phenol-d5 (Surr)	*3*	*S1-*	*10 - 63*	*10/03/23 15:34*	*10/04/23 16:23*	*1*
p-Terphenyl-d14 (Surr)	*95*		*28 - 134*	*10/03/23 15:34*	*10/04/23 16:23*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/09/23 10:55	10/09/23 14:58	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/09/23 10:55	10/09/23 14:58	1
Methane (1C)	ND		5.0	3.0	ug/L		10/09/23 10:55	10/09/23 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*46*		*43 - 133*	*10/09/23 10:55*	*10/09/23 14:58*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**120**		30	10	mg/L			10/02/23 17:21	20
Chloride	**500**		300	120	mg/L			10/03/23 14:27	200

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		09/28/23 20:30	10/03/23 20:52	1
Aluminum	ND		30	12	ug/L		09/28/23 20:30	10/03/23 20:52	1
Arsenic	**0.95**	**J**	2.0	0.68	ug/L		09/28/23 20:30	10/03/23 20:52	1
Barium	**200**		2.0	0.75	ug/L		09/28/23 20:30	10/03/23 20:52	1
Beryllium	ND		0.50	0.12	ug/L		09/28/23 20:30	10/03/23 20:52	1
Cadmium	ND		0.50	0.15	ug/L		09/28/23 20:30	10/03/23 20:52	1
Calcium	**140000**		600	250	ug/L		09/28/23 20:30	10/03/23 21:04	5
Chromium	ND		2.0	0.55	ug/L		09/28/23 20:30	10/03/23 20:52	1
Cobalt	**1.8**		0.50	0.16	ug/L		09/28/23 20:30	10/03/23 20:52	1
Copper	**0.45**	**J B**	1.0	0.36	ug/L		09/28/23 20:30	10/03/23 20:52	1
Iron	**650**		50	20	ug/L		09/28/23 20:30	10/03/23 20:52	1
Lead	ND		0.50	0.12	ug/L		09/28/23 20:30	10/03/23 20:52	1
Magnesium	**50000**		50	16	ug/L		09/28/23 20:30	10/03/23 20:52	1
Manganese	**2100**		2.0	0.95	ug/L		09/28/23 20:30	10/03/23 20:52	1
Nickel	**3.3**		1.0	0.40	ug/L		09/28/23 20:30	10/04/23 09:31	1
Potassium	**6500**		200	65	ug/L		09/28/23 20:30	10/03/23 20:52	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144543-1

Client Sample ID: ORS-EFFLUENT
Date Collected: 09/27/23 08:50
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144543-1
Matrix: Groundwater

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**1.7**		1.0	0.28	ug/L		09/28/23 20:30	10/03/23 20:52	1
Silver	ND		0.50	0.10	ug/L		09/28/23 20:30	10/03/23 20:52	1
Sodium	**340000**		1000	450	ug/L		09/28/23 20:30	10/03/23 21:04	5
Thallium	ND		0.50	0.13	ug/L		09/28/23 20:30	10/03/23 20:52	1
Vanadium	ND		4.0	0.79	ug/L		09/28/23 20:30	10/03/23 20:52	1
Zinc	ND		10	4.0	ug/L		09/28/23 20:30	10/03/23 20:52	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		09/28/23 23:56	09/29/23 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	**1.8**	**J**	5.4	1.5	mg/L			09/29/23 20:36	1
Turbidity (EPA 180.1)	**3.1**		1.0	1.0	NTU			09/28/23 21:06	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**370**		8.0	2.6	mg/L			09/28/23 20:35	1
Total Hardness (SM 2340C-2011)	**540**		100	30	mg/L			09/29/23 09:35	10
Specific Conductance (SM 2510B-2011)	**2500**		5.0	1.7	umhos/cm			09/29/23 20:41	1
Total Dissolved Solids (SM 2540C - 2015)	**1200**		240	96	mg/L			09/28/23 06:37	1
Total Suspended Solids (SM 2540D-2015)	ND		3.0	1.0	mg/L			09/29/23 16:17	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			09/28/23 19:34	1
Total Kjeldahl Nitrogen (EPA 351.2)	**1.1**		1.0	0.50	mg/L		10/03/23 15:40	10/04/23 13:41	1
Nitrate as N (EPA 353.2)	**1.1**		0.10	0.040	mg/L			09/28/23 09:48	1
Total Phosphorus as PO4 (EPA 365.1)	ND		0.31	0.25	mg/L		10/03/23 15:00	10/04/23 14:38	1
Chemical Oxygen Demand (EPA 410.4)	**49**	**J**	75	25	mg/L			09/29/23 03:17	1
Phenols, Total (EPA 420.4)	ND		0.020	0.010	mg/L			09/29/23 10:10	1
pH (SM 4500 H+ B-2011)	**8.3**	**HF**	0.01	0.01	S.U.			09/28/23 20:35	1
Temperature (SM 4500 H+ B-2011)	**22.0**	**HF**	0.01	0.01	Degrees C			09/28/23 20:35	1
Biochemical Oxygen Demand (SM 5210 B-2016)	ND		2.0	2.0	mg/L			09/28/23 19:00	1
Total Organic Carbon (SW846 9060A)	**3200**		1000	500	ug/L			09/28/23 17:24	1
TOC Result 1 (SW846 9060A)	**3000**		1000	500	ug/L			09/28/23 17:24	1
TOC Result 2 (SW846 9060A)	**3300**		1000	500	ug/L			09/28/23 17:24	1
TOC Result 3 (SW846 9060A)	**3200**		1000	500	ug/L			09/28/23 17:24	1
TOC Result 4 (SW846 9060A)	**3300**		1000	500	ug/L			09/28/23 17:24	1
Langelier Index (SM 2330B)	**1.4**				LangSU			09/28/23 05:04	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144543-1

Client Sample ID: QAQC_TB
Date Collected: 06/07/23 00:00
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144543-2
Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/28/23 17:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/28/23 17:14	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/28/23 17:14	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/28/23 17:14	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/28/23 17:14	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/28/23 17:14	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/28/23 17:14	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/28/23 17:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
1,4-Dioxane	ND		100	82	ug/L			09/28/23 17:14	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/28/23 17:14	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/28/23 17:14	1
2-Chloroethyl vinyl ether	ND	cn	1.0	0.50	ug/L			09/28/23 17:14	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/28/23 17:14	1
2-Hexanone	ND		2.0	0.50	ug/L			09/28/23 17:14	1
2-Propanol	ND		20	8.0	ug/L			09/28/23 17:14	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/28/23 17:14	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/28/23 17:14	1
Acetonitrile	ND		50	14	ug/L			09/28/23 17:14	1
Benzene	ND		1.0	0.25	ug/L			09/28/23 17:14	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/28/23 17:14	1
Bromobenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/28/23 17:14	1
Bromoform	ND		1.0	0.30	ug/L			09/28/23 17:14	1
Bromomethane	ND		1.0	0.44	ug/L			09/28/23 17:14	1
Butyl acetate	ND		5.0	0.60	ug/L			09/28/23 17:14	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/28/23 17:14	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/28/23 17:14	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Chloroethane	ND		1.0	0.44	ug/L			09/28/23 17:14	1
Chloroform	ND		1.0	0.30	ug/L			09/28/23 17:14	1
Chloromethane	ND		1.0	0.64	ug/L			09/28/23 17:14	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Cyclohexane	ND		1.0	0.30	ug/L			09/28/23 17:14	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Dibromomethane	ND		1.0	0.20	ug/L			09/28/23 17:14	1

Client Sample ID: QAQC_TB
Date Collected: 06/07/23 00:00
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144543-2
Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/28/23 17:14	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/28/23 17:14	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/28/23 17:14	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/28/23 17:14	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/28/23 17:14	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Freon 113	ND		1.0	0.30	ug/L			09/28/23 17:14	1
Freon 123a	ND		1.0	0.44	ug/L			09/28/23 17:14	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Isobutyl alcohol	ND		50	12	ug/L			09/28/23 17:14	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/28/23 17:14	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/28/23 17:14	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/28/23 17:14	1
Methacrylonitrile	ND		10	2.0	ug/L			09/28/23 17:14	1
Methyl iodide	ND		1.0	0.30	ug/L			09/28/23 17:14	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/28/23 17:14	1
Naphthalene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
n-Heptane	ND		1.0	0.40	ug/L			09/28/23 17:14	1
n-Hexane	ND		1.0	0.46	ug/L			09/28/23 17:14	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/28/23 17:14	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
o-Xylene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Propionitrile	ND		20	8.5	ug/L			09/28/23 17:14	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Styrene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/28/23 17:14	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/28/23 17:14	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Tetrachloroethene	ND		1.0	0.30	ug/L			09/28/23 17:14	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/28/23 17:14	1
Toluene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/28/23 17:14	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/28/23 17:14	1
Trichloroethene	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/28/23 17:14	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/28/23 17:14	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/28/23 17:14	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/28/23 17:14	1
Acrolein	ND	cn	10	3.0	ug/L			09/28/23 17:14	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			09/28/23 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*09/28/23 17:14*	*1*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*09/28/23 17:14*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*09/28/23 17:14*	*1*

Client Sample ID: QAQC_TB
Date Collected: 06/07/23 00:00
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144543-2
Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		60 - 140		09/28/23 17:14	1

Action Limit Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144543-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-EFFLUENT
Lab Sample ID: 410-144543-1

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	1.8	J	mg/L	5	5.4	1664A	Total/NA

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144543-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-144543-1	ORS-EFFLUENT	103	97	101	99
410-144543-1 MS	ORS-EFFLUENT	101	98	102	99
410-144543-1 MSD	ORS-EFFLUENT	100	98	101	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-144543-2	QAQC_TB	102	98	101	98
LCS 410-424966/1003	Lab Control Sample	101	98	102	99
LCS 410-424966/1004	Lab Control Sample	101	99	101	98
MB 410-424966/5	Method Blank	101	99	101	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-144543-1	ORS-EFFLUENT	110	103	110	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
LCS 410-426971/4	Lab Control Sample	112	102	107	94
MB 410-426971/6	Method Blank	105	101	109	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)
410-144543-1	ORS-EFFLUENT	16	80	4 S1-	71	3 S1-	95

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)
LCS 410-426836/4-A	Lab Control Sample	99	79	52	76	38	113
LCSD 410-426836/5-A	Lab Control Sample Dup	94	78	48	74	33	113
MB 410-426836/1-A	Method Blank	86	78	46	79	32	117

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		Propene1
Lab Sample ID	Client Sample ID	(43-133)
410-144543-1	ORS-EFFLUENT	46

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		Propene1
Lab Sample ID	Client Sample ID	(43-133)
LCS 410-429006/2-A	Lab Control Sample	93
LCSD 410-429006/3-A	Lab Control Sample Dup	93
MB 410-429006/1-A	Method Blank	94

Surrogate Legend

Propene = Propene

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-424966/5
Matrix: Water
Analysis Batch: 424966

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/28/23 14:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/28/23 14:32	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/28/23 14:32	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/28/23 14:32	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/28/23 14:32	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/28/23 14:32	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/28/23 14:32	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/28/23 14:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
1,4-Dioxane	ND		100	82	ug/L			09/28/23 14:32	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/28/23 14:32	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/28/23 14:32	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			09/28/23 14:32	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/28/23 14:32	1
2-Hexanone	ND		2.0	0.50	ug/L			09/28/23 14:32	1
2-Propanol	ND		20	8.0	ug/L			09/28/23 14:32	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/28/23 14:32	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/28/23 14:32	1
Acetonitrile	ND		50	14	ug/L			09/28/23 14:32	1
Benzene	ND		1.0	0.25	ug/L			09/28/23 14:32	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/28/23 14:32	1
Bromobenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/28/23 14:32	1
Bromoform	ND		1.0	0.30	ug/L			09/28/23 14:32	1
Bromomethane	ND		1.0	0.44	ug/L			09/28/23 14:32	1
Butyl acetate	ND		5.0	0.60	ug/L			09/28/23 14:32	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/28/23 14:32	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/28/23 14:32	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Chloroethane	ND		1.0	0.44	ug/L			09/28/23 14:32	1
Chloroform	ND		1.0	0.30	ug/L			09/28/23 14:32	1
Chloromethane	ND		1.0	0.64	ug/L			09/28/23 14:32	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Cyclohexane	ND		1.0	0.30	ug/L			09/28/23 14:32	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/28/23 14:32	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-424966/5
Matrix: Water
Analysis Batch: 424966

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/28/23 14:32	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/28/23 14:32	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/28/23 14:32	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/28/23 14:32	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/28/23 14:32	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Freon 113	ND		1.0	0.30	ug/L			09/28/23 14:32	1
Freon 123a	ND		1.0	0.44	ug/L			09/28/23 14:32	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Isobutyl alcohol	ND		50	12	ug/L			09/28/23 14:32	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/28/23 14:32	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/28/23 14:32	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/28/23 14:32	1
Methacrylonitrile	ND		10	2.0	ug/L			09/28/23 14:32	1
Methyl iodide	ND		1.0	0.30	ug/L			09/28/23 14:32	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/28/23 14:32	1
Naphthalene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
n-Heptane	ND		1.0	0.40	ug/L			09/28/23 14:32	1
n-Hexane	ND		1.0	0.46	ug/L			09/28/23 14:32	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/28/23 14:32	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
o-Xylene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Propionitrile	ND		20	8.5	ug/L			09/28/23 14:32	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Styrene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/28/23 14:32	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/28/23 14:32	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Tetrachloroethene	ND		1.0	0.30	ug/L			09/28/23 14:32	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/28/23 14:32	1
Toluene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/28/23 14:32	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/28/23 14:32	1
Trichloroethene	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/28/23 14:32	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/28/23 14:32	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/28/23 14:32	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/28/23 14:32	1
Acrolein	ND		10	3.0	ug/L			09/28/23 14:32	1
Acrylonitrile	ND		3.0	1.1	ug/L			09/28/23 14:32	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-424966/5
Matrix: Water
Analysis Batch: 424966

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		60 - 140		09/28/23 14:32	1
4-Bromofluorobenzene (Surr)	99		60 - 140		09/28/23 14:32	1
Dibromofluoromethane (Surr)	101		60 - 140		09/28/23 14:32	1
Toluene-d8 (Surr)	99		60 - 140		09/28/23 14:32	1

Lab Sample ID: LCS 410-424966/1003
Matrix: Water
Analysis Batch: 424966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.1		ug/L		96	60 - 140
1,1,1-Trichloroethane	20.0	19.0		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	20.0	18.1		ug/L		91	60 - 140
1,1,2-Trichloroethane	20.0	18.3		ug/L		91	70 - 130
1,1-Dichloroethane	20.0	18.3		ug/L		91	70 - 130
1,1-Dichloroethene	20.0	19.2		ug/L		96	50 - 150
1,1-Dichloropropene	20.0	19.2		ug/L		96	60 - 140
1,2,3-Trichlorobenzene	20.0	17.6		ug/L		88	60 - 140
1,2,3-Trichloropropane	20.0	18.0		ug/L		90	60 - 140
1,2,4-Trichlorobenzene	20.0	17.7		ug/L		89	60 - 140
1,2,4-Trimethylbenzene	20.0	17.7		ug/L		88	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/L		88	60 - 140
1,2-Dibromoethane	20.0	18.7		ug/L		94	60 - 140
1,2-Dichlorobenzene	20.0	17.4		ug/L		87	65 - 135
1,2-Dichloroethane	20.0	18.1		ug/L		90	70 - 130
1,2-Dichloroethene (total)	40.0	37.6		ug/L		94	60 - 140
1,2-Dichloropropane	20.0	18.8		ug/L		94	35 - 165
1,3,5-Trimethylbenzene	20.0	17.7		ug/L		88	60 - 140
1,3-Dichlorobenzene	20.0	17.5		ug/L		87	70 - 130
1,3-Dichloropropane	20.0	18.5		ug/L		92	60 - 140
1,4-Dichlorobenzene	20.0	18.4		ug/L		92	65 - 135
1,4-Dioxane	500	484		ug/L		97	60 - 140
2,2-Dichloropropane	20.0	18.0		ug/L		90	60 - 140
2-Chloro-1,3-butadiene	20.0	18.1		ug/L		90	60 - 140
2-Chlorotoluene	20.0	18.5		ug/L		92	60 - 140
2-Hexanone	250	223		ug/L		89	60 - 140
2-Propanol	150	147		ug/L		98	60 - 140
4-Chlorotoluene	20.0	18.4		ug/L		92	60 - 140
4-Methyl-2-pentanone	250	228		ug/L		91	60 - 140
Benzene	20.0	19.1		ug/L		95	65 - 135
Benzyl chloride	20.0	16.8		ug/L		84	60 - 140
Bromobenzene	20.0	18.5		ug/L		93	60 - 140
Bromodichloromethane	20.0	18.4		ug/L		92	65 - 135
Bromoform	20.0	16.4		ug/L		82	70 - 130
Bromomethane	20.0	17.3		ug/L		87	15 - 185
Carbon disulfide	20.0	17.3		ug/L		87	60 - 140
Carbon tetrachloride	20.0	18.6		ug/L		93	70 - 130
Chlorobenzene	20.0	18.0		ug/L		90	65 - 135

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-424966/1003
Matrix: Water
Analysis Batch: 424966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	20.0	18.2		ug/L		91	40 - 160
Chloroform	20.0	18.6		ug/L		93	70 - 135
Chloromethane	20.0	16.8		ug/L		84	10 - 200
cis-1,2-Dichloroethene	20.0	19.1		ug/L		96	60 - 140
cis-1,3-Dichloropropene	20.0	17.5		ug/L		88	25 - 175
Cyclohexane	20.0	17.5		ug/L		88	60 - 140
Dibromochloromethane	20.0	17.7		ug/L		88	70 - 135
Dibromomethane	20.0	19.4		ug/L		97	60 - 140
Dichlorodifluoromethane	20.0	14.5		ug/L		73	60 - 140
Dichlorofluoromethane	20.0	16.7		ug/L		83	60 - 140
di-Isopropyl ether	20.0	17.4		ug/L		87	60 - 140
Ethyl methacrylate	20.0	16.8		ug/L		84	60 - 140
Ethyl t-butyl ether	20.0	18.8		ug/L		94	60 - 140
Ethylbenzene	20.0	18.1		ug/L		91	60 - 140
Freon 113	20.0	19.7		ug/L		98	60 - 140
Freon 123a	20.0	17.6		ug/L		88	60 - 140
Hexachlorobutadiene	20.0	17.4		ug/L		87	60 - 140
Isobutyl alcohol	500	453		ug/L		91	60 - 140
Isopropylbenzene	20.0	18.5		ug/L		92	60 - 140
m&p-Xylene	40.0	37.0		ug/L		93	60 - 140
Methacrylonitrile	150	140		ug/L		93	60 - 140
Methyl iodide	20.0	18.5		ug/L		92	60 - 140
Methyl methacrylate	20.0	17.9		ug/L		90	60 - 140
Methylene Chloride	20.0	17.7		ug/L		89	60 - 140
Naphthalene	20.0	17.9		ug/L		90	60 - 140
n-Butylbenzene	20.0	17.1		ug/L		86	60 - 140
n-Heptane	20.0	16.5		ug/L		83	60 - 140
n-Hexane	20.0	17.1		ug/L		85	60 - 140
N-Propylbenzene	20.0	18.0		ug/L		90	60 - 140
o-Xylene	20.0	18.2		ug/L		91	60 - 140
p-Isopropyltoluene	20.0	17.6		ug/L		88	60 - 140
Propionitrile	150	142		ug/L		95	60 - 140
sec-Butylbenzene	20.0	17.7		ug/L		89	60 - 140
Styrene	20.0	18.7		ug/L		94	60 - 140
t-Amyl methyl ether	20.0	18.3		ug/L		92	60 - 140
t-Butyl alcohol	200	187		ug/L		93	60 - 140
tert-Butylbenzene	20.0	17.5		ug/L		87	60 - 140
Tetrachloroethene	20.0	18.6		ug/L		93	70 - 130
Tetrahydrofuran	100	85.2		ug/L		85	60 - 140
Toluene	20.0	18.2		ug/L		91	70 - 130
trans-1,2-Dichloroethene	20.0	18.5		ug/L		92	70 - 130
trans-1,3-Dichloropropene	20.0	17.5		ug/L		87	50 - 150
trans-1,4-Dichloro-2-butene	100	70.6		ug/L		71	60 - 140
Trichloroethene	20.0	18.6		ug/L		93	65 - 135
Trichlorofluoromethane	20.0	17.6		ug/L		88	50 - 150
Vinyl chloride	20.0	16.3		ug/L		82	10 - 195
Xylenes, Total	60.0	55.2		ug/L		92	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-424966/1003
Matrix: Water
Analysis Batch: 424966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: LCS 410-424966/1004
Matrix: Water
Analysis Batch: 424966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	150	146		ug/L		98	60 - 140
Butyl acetate	20.0	17.2		ug/L		86	60 - 140
Ethyl acetate	20.0	18.0		ug/L		90	60 - 140
Isopropyl acetate	20.0	17.8		ug/L		89	60 - 140
n-Propyl acetate	20.0	18.0		ug/L		90	60 - 140
Vinyl acetate	100	92.7		ug/L		93	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*
Dibromofluoromethane (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*98*		*60 - 140*

Lab Sample ID: 410-144543-1 MS
Matrix: Groundwater
Analysis Batch: 424966

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		20.0	20.5		ug/L		103	60 - 140
1,1,1-Trichloroethane	ND		20.0	21.8		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	ND		20.0	19.5		ug/L		98	60 - 140
1,1,2-Trichloroethane	ND		20.0	19.7		ug/L		99	70 - 130
1,1-Dichloroethane	ND		20.0	20.5		ug/L		102	70 - 130
1,1-Dichloroethene	ND		20.0	22.4		ug/L		112	50 - 150
1,1-Dichloropropene	ND		20.0	22.3		ug/L		111	60 - 140
1,2,3-Trichlorobenzene	ND		20.0	19.7		ug/L		99	60 - 140
1,2,3-Trichloropropane	ND		20.0	19.2		ug/L		96	60 - 140
1,2,4-Trichlorobenzene	ND		20.0	19.9		ug/L		100	60 - 140
1,2,4-Trimethylbenzene	ND		20.0	20.2		ug/L		101	60 - 140
1,2-Dibromo-3-Chloropropane	ND		20.0	18.5		ug/L		92	60 - 140
1,2-Dibromoethane	ND		20.0	20.4		ug/L		102	60 - 140
1,2-Dichlorobenzene	ND		20.0	19.4		ug/L		97	65 - 135
1,2-Dichloroethane	0.84	J	20.0	20.3		ug/L		97	70 - 130
1,2-Dichloroethene (total)	0.90	J	40.0	43.2		ug/L		106	60 - 140
1,2-Dichloropropane	ND		20.0	20.7		ug/L		104	35 - 165
1,3,5-Trimethylbenzene	ND		20.0	20.2		ug/L		101	60 - 140
1,3-Dichlorobenzene	ND		20.0	19.7		ug/L		98	70 - 130
1,3-Dichloropropane	ND		20.0	19.8		ug/L		99	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-144543-1 MS
Matrix: Groundwater
Analysis Batch: 424966

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	ND		20.0	20.7		ug/L		104	65 - 135
1,4-Dioxane	ND		500	545		ug/L		109	60 - 140
2,2-Dichloropropane	ND		20.0	20.7		ug/L		103	60 - 140
2-Chloro-1,3-butadiene	ND		20.0	20.8		ug/L		104	60 - 140
2-Chlorotoluene	ND		20.0	20.7		ug/L		103	60 - 140
2-Hexanone	ND		250	245		ug/L		98	60 - 140
2-Propanol	ND		150	148		ug/L		98	60 - 140
4-Chlorotoluene	ND		20.0	20.5		ug/L		102	60 - 140
4-Methyl-2-pentanone	ND		250	247		ug/L		99	60 - 140
Benzene	ND		20.0	21.7		ug/L		108	65 - 135
Benzyl chloride	ND		20.0	17.4		ug/L		87	60 - 140
Bromobenzene	ND		20.0	20.7		ug/L		103	60 - 140
Bromodichloromethane	ND		20.0	19.8		ug/L		99	65 - 135
Bromoform	ND		20.0	16.4		ug/L		82	70 - 130
Bromomethane	ND		20.0	20.0		ug/L		100	15 - 185
Carbon disulfide	ND		20.0	17.9		ug/L		90	60 - 140
Carbon tetrachloride	ND		20.0	21.8		ug/L		109	70 - 130
Chlorobenzene	ND		20.0	20.3		ug/L		102	65 - 135
Chloroethane	ND		20.0	21.3		ug/L		107	40 - 160
Chloroform	ND		20.0	20.8		ug/L		104	70 - 135
Chloromethane	ND		20.0	19.5		ug/L		97	10 - 200
cis-1,2-Dichloroethene	0.90	J	20.0	22.4		ug/L		108	60 - 140
cis-1,3-Dichloropropene	ND		20.0	18.8		ug/L		94	25 - 175
Cyclohexane	ND		20.0	20.9		ug/L		105	60 - 140
Dibromochloromethane	ND		20.0	18.4		ug/L		92	70 - 135
Dibromomethane	ND		20.0	21.1		ug/L		106	60 - 140
Dichlorodifluoromethane	ND		20.0	18.4		ug/L		92	60 - 140
Dichlorofluoromethane	ND		20.0	19.0		ug/L		95	60 - 140
di-Isopropyl ether	ND		20.0	19.0		ug/L		95	60 - 140
Ethyl methacrylate	ND		20.0	17.8		ug/L		89	60 - 140
Ethyl t-butyl ether	ND		20.0	20.0		ug/L		100	60 - 140
Ethylbenzene	ND		20.0	20.7		ug/L		103	60 - 140
Freon 113	ND		20.0	23.7		ug/L		119	60 - 140
Freon 123a	ND		20.0	20.6		ug/L		103	60 - 140
Hexachlorobutadiene	ND		20.0	20.2		ug/L		101	60 - 140
Isobutyl alcohol	ND		500	516		ug/L		103	60 - 140
Isopropylbenzene	ND		20.0	21.4		ug/L		107	60 - 140
m&p-Xylene	ND		40.0	42.1		ug/L		105	60 - 140
Methacrylonitrile	ND		150	150		ug/L		100	60 - 140
Methyl iodide	ND		20.0	20.6		ug/L		103	60 - 140
Methyl methacrylate	ND		20.0	19.5		ug/L		98	60 - 140
Methylene Chloride	ND		20.0	19.2		ug/L		96	60 - 140
Naphthalene	ND		20.0	20.1		ug/L		100	60 - 140
n-Butylbenzene	ND		20.0	20.0		ug/L		100	60 - 140
n-Heptane	ND		20.0	20.1		ug/L		101	60 - 140
n-Hexane	ND		20.0	20.6		ug/L		103	60 - 140
N-Propylbenzene	ND		20.0	20.7		ug/L		103	60 - 140
o-Xylene	ND		20.0	20.5		ug/L		102	60 - 140
p-Isopropyltoluene	ND		20.0	20.5		ug/L		103	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-144543-1 MS
Matrix: Groundwater
Analysis Batch: 424966

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Propionitrile	ND		150	152		ug/L		102	60 - 140
sec-Butylbenzene	ND		20.0	20.9		ug/L		104	60 - 140
Styrene	ND		20.0	20.7		ug/L		104	60 - 140
t-Amyl methyl ether	ND		20.0	19.7		ug/L		99	60 - 140
t-Butyl alcohol	ND		200	214		ug/L		107	60 - 140
tert-Butylbenzene	ND		20.0	20.6		ug/L		103	60 - 140
Tetrachloroethene	0.63	J	20.0	22.2		ug/L		108	70 - 130
Tetrahydrofuran	ND		100	93.3		ug/L		93	60 - 140
Toluene	ND		20.0	20.8		ug/L		104	70 - 130
trans-1,2-Dichloroethene	ND		20.0	20.8		ug/L		104	70 - 130
trans-1,3-Dichloropropene	ND		20.0	18.5		ug/L		92	50 - 150
trans-1,4-Dichloro-2-butene	ND		100	77.9		ug/L		78	60 - 140
Trichloroethene	0.86	J	20.0	22.2		ug/L		107	65 - 135
Trichlorofluoromethane	ND		20.0	21.6		ug/L		108	50 - 150
Vinyl chloride	ND		20.0	19.4		ug/L		97	10 - 195
Xylenes, Total	ND		60.0	62.6		ug/L		104	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: 410-144543-1 MSD
Matrix: Groundwater
Analysis Batch: 424966

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	20.3		ug/L		101	60 - 140	1	30
1,1,1-Trichloroethane	ND		20.0	21.2		ug/L		106	70 - 130	3	30
1,1,2,2-Tetrachloroethane	ND		20.0	19.0		ug/L		95	60 - 140	3	30
1,1,2-Trichloroethane	ND		20.0	19.4		ug/L		97	70 - 130	2	30
1,1-Dichloroethane	ND		20.0	19.6		ug/L		98	70 - 130	4	30
1,1-Dichloroethene	ND		20.0	21.5		ug/L		107	50 - 150	4	30
1,1-Dichloropropene	ND		20.0	21.5		ug/L		107	60 - 140	4	30
1,2,3-Trichlorobenzene	ND		20.0	19.7		ug/L		98	60 - 140	0	30
1,2,3-Trichloropropane	ND		20.0	18.8		ug/L		94	60 - 140	2	30
1,2,4-Trichlorobenzene	ND		20.0	19.5		ug/L		98	60 - 140	2	30
1,2,4-Trimethylbenzene	ND		20.0	19.4		ug/L		97	60 - 140	4	30
1,2-Dibromo-3-Chloropropane	ND		20.0	17.5		ug/L		88	60 - 140	5	30
1,2-Dibromoethane	ND		20.0	19.9		ug/L		99	60 - 140	3	30
1,2-Dichlorobenzene	ND		20.0	18.9		ug/L		94	65 - 135	3	30
1,2-Dichloroethane	0.84	J	20.0	19.6		ug/L		94	70 - 130	4	30
1,2-Dichloroethene (total)	0.90	J	40.0	41.7		ug/L		102	60 - 140	4	30
1,2-Dichloropropane	ND		20.0	20.3		ug/L		101	35 - 165	2	30
1,3,5-Trimethylbenzene	ND		20.0	19.7		ug/L		99	60 - 140	2	30
1,3-Dichlorobenzene	ND		20.0	19.1		ug/L		95	70 - 130	3	30
1,3-Dichloropropane	ND		20.0	19.2		ug/L		96	60 - 140	3	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-144543-1 MSD
Matrix: Groundwater
Analysis Batch: 424966

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		20.0	20.2		ug/L		101	65 - 135	3	30
1,4-Dioxane	ND		500	494		ug/L		99	60 - 140	10	30
2,2-Dichloropropane	ND		20.0	19.8		ug/L		99	60 - 140	4	30
2-Chloro-1,3-butadiene	ND		20.0	20.2		ug/L		101	60 - 140	3	30
2-Chlorotoluene	ND		20.0	20.2		ug/L		101	60 - 140	2	30
2-Hexanone	ND		250	235		ug/L		94	60 - 140	4	30
2-Propanol	ND		150	147		ug/L		98	60 - 140	0	30
4-Chlorotoluene	ND		20.0	20.1		ug/L		100	60 - 140	2	30
4-Methyl-2-pentanone	ND		250	237		ug/L		95	60 - 140	4	30
Benzene	ND		20.0	21.0		ug/L		105	65 - 135	3	30
Benzyl chloride	ND		20.0	16.9		ug/L		85	60 - 140	3	30
Bromobenzene	ND		20.0	20.0		ug/L		100	60 - 140	3	30
Bromodichloromethane	ND		20.0	19.4		ug/L		97	65 - 135	2	30
Bromoform	ND		20.0	15.9		ug/L		80	70 - 130	3	30
Bromomethane	ND		20.0	19.3		ug/L		97	15 - 185	3	30
Carbon disulfide	ND		20.0	17.9		ug/L		89	60 - 140	0	30
Carbon tetrachloride	ND		20.0	21.0		ug/L		105	70 - 130	3	30
Chlorobenzene	ND		20.0	19.6		ug/L		98	65 - 135	3	30
Chloroethane	ND		20.0	20.4		ug/L		102	40 - 160	4	30
Chloroform	ND		20.0	19.9		ug/L		100	70 - 135	4	30
Chloromethane	ND		20.0	18.0		ug/L		90	10 - 200	8	30
cis-1,2-Dichloroethene	0.90	J	20.0	21.5		ug/L		103	60 - 140	4	30
cis-1,3-Dichloropropene	ND		20.0	18.3		ug/L		92	25 - 175	2	30
Cyclohexane	ND		20.0	20.4		ug/L		102	60 - 140	2	30
Dibromochloromethane	ND		20.0	18.0		ug/L		90	70 - 135	2	30
Dibromomethane	ND		20.0	20.2		ug/L		101	60 - 140	4	30
Dichlorodifluoromethane	ND		20.0	17.6		ug/L		88	60 - 140	4	30
Dichlorofluoromethane	ND		20.0	18.2		ug/L		91	60 - 140	4	30
di-Isopropyl ether	ND		20.0	18.1		ug/L		90	60 - 140	5	30
Ethyl methacrylate	ND		20.0	17.5		ug/L		87	60 - 140	2	30
Ethyl t-butyl ether	ND		20.0	19.2		ug/L		96	60 - 140	4	30
Ethylbenzene	ND		20.0	20.1		ug/L		101	60 - 140	3	30
Freon 113	ND		20.0	23.1		ug/L		116	60 - 140	3	30
Freon 123a	ND		20.0	19.8		ug/L		99	60 - 140	4	30
Hexachlorobutadiene	ND		20.0	19.9		ug/L		99	60 - 140	2	30
Isobutyl alcohol	ND		500	427		ug/L		85	60 - 140	19	30
Isopropylbenzene	ND		20.0	20.8		ug/L		104	60 - 140	3	30
m&p-Xylene	ND		40.0	40.9		ug/L		102	60 - 140	3	30
Methacrylonitrile	ND		150	144		ug/L		96	60 - 140	4	30
Methyl iodide	ND		20.0	19.8		ug/L		99	60 - 140	4	30
Methyl methacrylate	ND		20.0	18.8		ug/L		94	60 - 140	4	30
Methylene Chloride	ND		20.0	18.5		ug/L		93	60 - 140	3	30
Naphthalene	ND		20.0	19.5		ug/L		98	60 - 140	3	30
n-Butylbenzene	ND		20.0	19.4		ug/L		97	60 - 140	3	30
n-Heptane	ND		20.0	19.4		ug/L		97	60 - 140	4	30
n-Hexane	ND		20.0	19.3		ug/L		97	60 - 140	7	30
N-Propylbenzene	ND		20.0	20.2		ug/L		101	60 - 140	2	30
o-Xylene	ND		20.0	20.0		ug/L		100	60 - 140	2	30
p-Isopropyltoluene	ND		20.0	20.1		ug/L		101	60 - 140	2	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-144543-1 MSD
Matrix: Groundwater
Analysis Batch: 424966

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Propionitrile	ND		150	131		ug/L		87	60 - 140	15	30
sec-Butylbenzene	ND		20.0	20.2		ug/L		101	60 - 140	3	30
Styrene	ND		20.0	20.1		ug/L		100	60 - 140	3	30
t-Amyl methyl ether	ND		20.0	19.0		ug/L		95	60 - 140	4	30
t-Butyl alcohol	ND		200	199		ug/L		99	60 - 140	7	30
tert-Butylbenzene	ND		20.0	19.7		ug/L		98	60 - 140	5	30
Tetrachloroethene	0.63	J	20.0	21.6		ug/L		105	70 - 130	3	30
Tetrahydrofuran	ND		100	88.5		ug/L		88	60 - 140	5	30
Toluene	ND		20.0	20.1		ug/L		100	70 - 130	3	30
trans-1,2-Dichloroethene	ND		20.0	20.2		ug/L		101	70 - 130	3	30
trans-1,3-Dichloropropene	ND		20.0	18.2		ug/L		91	50 - 150	1	30
trans-1,4-Dichloro-2-butene	ND		100	74.8		ug/L		75	60 - 140	4	30
Trichloroethene	0.86	J	20.0	21.3		ug/L		102	65 - 135	4	30
Trichlorofluoromethane	ND		20.0	21.1		ug/L		106	50 - 150	2	30
Vinyl chloride	ND		20.0	19.0		ug/L		95	10 - 195	2	30
Xylenes, Total	ND		60.0	60.9		ug/L		102	60 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*
Dibromofluoromethane (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-426971/6
Matrix: Water
Analysis Batch: 426971

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/03/23 23:27	1
Acetone	ND		20	0.70	ug/L			10/03/23 23:27	1
2-Butanone	ND		10	0.50	ug/L			10/03/23 23:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*10/03/23 23:27*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*10/03/23 23:27*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*10/03/23 23:27*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/03/23 23:27*	*1*

Lab Sample ID: LCS 410-426971/4
Matrix: Water
Analysis Batch: 426971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tertiary butyl ether	20.0	20.3		ug/L		101	69 - 122
Acetone	250	240		ug/L		96	54 - 157
2-Butanone	250	295		ug/L		118	59 - 135

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-426971/4
Matrix: Water
Analysis Batch: 426971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	107		80 - 120
Toluene-d8 (Surr)	94		80 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-426836/1-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 426836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,4-Dioxane	ND		5.0	2.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		10/03/23 15:34	10/04/23 15:39	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Chlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Methylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Nitroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Nitrophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		10/03/23 15:34	10/04/23 15:39	1
3-Nitroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Chloroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Methylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Nitroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Nitrophenol	ND		5.0	0.90	ug/L		10/03/23 15:34	10/04/23 15:39	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-426836/1-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 426836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
Acenaphthylene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Acetophenone	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Aniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Anthracene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
a-Terpineol	ND		5.0	0.60	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzidine	ND		60	6.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzoic acid	ND		30	4.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzyl alcohol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Carbazole	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Chrysene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		10/03/23 15:34	10/04/23 15:39	1
Dibenzofuran	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Diethylphthalate	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Dimethylphthalate	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Diphenyl ether	ND		5.0	0.75	ug/L		10/03/23 15:34	10/04/23 15:39	1
Fluoranthene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Fluorene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Hexachloroethane	ND		2.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		10/03/23 15:34	10/04/23 15:39	1
Isophorone	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Naphthalene	ND		2.0	0.30	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Decane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Docosane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Eicosane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Hexadecane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Nitrobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Octadecane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Tetradecane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-426836/1-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 426836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Toluidine	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Pentachlorophenol	ND		5.0	0.80	ug/L		10/03/23 15:34	10/04/23 15:39	1
Phenanthrene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Phenol	ND		1.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Pyrene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
Pyridine	ND		10	0.80	ug/L		10/03/23 15:34	10/04/23 15:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*86*		*10 - 150*	*10/03/23 15:34*	*10/04/23 15:39*	*1*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*	*10/03/23 15:34*	*10/04/23 15:39*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 83*	*10/03/23 15:34*	*10/04/23 15:39*	*1*
Nitrobenzene-d5 (Surr)	*79*		*41 - 121*	*10/03/23 15:34*	*10/04/23 15:39*	*1*
Phenol-d5 (Surr)	*32*		*10 - 63*	*10/03/23 15:34*	*10/04/23 15:39*	*1*
p-Terphenyl-d14 (Surr)	*117*		*28 - 134*	*10/03/23 15:34*	*10/04/23 15:39*	*1*

Lab Sample ID: LCS 410-426836/4-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 426836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodiethylamine	50.0	46.2		ug/L		92	60 - 106
N-Nitrosodi-n-butylamine	50.0	40.3		ug/L		81	57 - 101
N-Nitrosopyrrolidine	50.0	49.3		ug/L		99	43 - 125
o-Toluidine	50.0	47.1		ug/L		94	44 - 103
Pentachlorobenzene	50.0	56.3		ug/L		113	48 - 114

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*99*		*10 - 150*
2-Fluorobiphenyl (Surr)	*79*		*32 - 115*
2-Fluorophenol (Surr)	*52*		*10 - 83*
Nitrobenzene-d5 (Surr)	*76*		*41 - 121*
Phenol-d5 (Surr)	*38*		*10 - 63*
p-Terphenyl-d14 (Surr)	*113*		*28 - 134*

Lab Sample ID: LCSD 410-426836/5-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 426836

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodiethylamine	50.0	42.7		ug/L		85	60 - 106	8	30
N-Nitrosodi-n-butylamine	50.0	39.1		ug/L		78	57 - 101	3	30
N-Nitrosopyrrolidine	50.0	46.4		ug/L		93	43 - 125	6	30
o-Toluidine	50.0	41.2		ug/L		82	44 - 103	13	30
Pentachlorobenzene	50.0	55.9		ug/L		112	48 - 114	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*94*		*10 - 150*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-426836/5-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 426836

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	78		32 - 115
2-Fluorophenol (Surr)	48		10 - 83
Nitrobenzene-d5 (Surr)	74		41 - 121
Phenol-d5 (Surr)	33		10 - 63
p-Terphenyl-d14 (Surr)	113		28 - 134

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-429006/1-A
Matrix: Water
Analysis Batch: 428933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/09/23 10:55	10/09/23 11:00	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/09/23 10:55	10/09/23 11:00	1
Methane (1C)	ND		5.0	3.0	ug/L		10/09/23 10:55	10/09/23 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Propene (1C)	94		43 - 133	10/09/23 10:55	10/09/23 11:00	1

Lab Sample ID: LCS 410-429006/2-A
Matrix: Water
Analysis Batch: 428933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429006

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane (1C)			61.7	64.0		ug/L		104	85 - 115		
Ethene (1C)			58.3	60.1		ug/L		103	83 - 115		
Methane (1C)			59.8	62.3		ug/L		104	85 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Propene (1C)	93		43 - 133

Lab Sample ID: LCSD 410-429006/3-A
Matrix: Water
Analysis Batch: 428933

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 429006

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)			61.7	62.2		ug/L		101	85 - 115	3	20
Ethene (1C)			58.3	58.5		ug/L		100	83 - 115	3	20
Methane (1C)			59.8	60.1		ug/L		101	85 - 115	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Propene (1C)	93		43 - 133

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-426391/5
Matrix: Water
Analysis Batch: 426391

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			10/02/23 13:29	1
Chloride	ND		1.5	0.60	mg/L			10/02/23 13:29	1

Lab Sample ID: LCS 410-426391/3
Matrix: Water
Analysis Batch: 426391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	6.86		mg/L		91	90 - 110
Chloride	3.00	2.70		mg/L		90	90 - 110

Lab Sample ID: LCSD 410-426391/4
Matrix: Water
Analysis Batch: 426391

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	6.88		mg/L		92	90 - 110	0	20
Chloride	3.00	2.71		mg/L		90	90 - 110	0	20

Lab Sample ID: MB 410-426925/5
Matrix: Water
Analysis Batch: 426925

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			10/03/23 10:42	1
Chloride	ND		1.5	0.60	mg/L			10/03/23 10:42	1

Lab Sample ID: LCS 410-426925/3
Matrix: Water
Analysis Batch: 426925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	7.45		mg/L		99	90 - 110
Chloride	3.00	2.87		mg/L		96	90 - 110

Lab Sample ID: LCSD 410-426925/4
Matrix: Water
Analysis Batch: 426925

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	7.55		mg/L		101	90 - 110	1	20
Chloride	3.00	2.90		mg/L		97	90 - 110	1	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-425151/1-A
Matrix: Water
Analysis Batch: 426959

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 425151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		09/28/23 20:30	10/03/23 20:15	1
Aluminum	ND		30	12	ug/L		09/28/23 20:30	10/03/23 20:15	1
Arsenic	ND		2.0	0.68	ug/L		09/28/23 20:30	10/03/23 20:15	1
Barium	ND		2.0	0.75	ug/L		09/28/23 20:30	10/03/23 20:15	1
Beryllium	ND		0.50	0.12	ug/L		09/28/23 20:30	10/03/23 20:15	1
Cadmium	ND		0.50	0.15	ug/L		09/28/23 20:30	10/03/23 20:15	1
Calcium	ND		120	50	ug/L		09/28/23 20:30	10/03/23 20:15	1
Chromium	ND		2.0	0.55	ug/L		09/28/23 20:30	10/03/23 20:15	1
Cobalt	ND		0.50	0.16	ug/L		09/28/23 20:30	10/03/23 20:15	1
Copper	0.679	J	1.0	0.36	ug/L		09/28/23 20:30	10/03/23 20:15	1
Iron	ND		50	20	ug/L		09/28/23 20:30	10/03/23 20:15	1
Lead	ND		0.50	0.12	ug/L		09/28/23 20:30	10/03/23 20:15	1
Magnesium	ND		50	16	ug/L		09/28/23 20:30	10/03/23 20:15	1
Manganese	ND		2.0	0.95	ug/L		09/28/23 20:30	10/03/23 20:15	1
Potassium	ND		200	65	ug/L		09/28/23 20:30	10/03/23 20:15	1
Selenium	ND		1.0	0.28	ug/L		09/28/23 20:30	10/03/23 20:15	1
Silver	ND		0.50	0.10	ug/L		09/28/23 20:30	10/03/23 20:15	1
Sodium	ND		200	90	ug/L		09/28/23 20:30	10/03/23 20:15	1
Thallium	ND		0.50	0.13	ug/L		09/28/23 20:30	10/03/23 20:15	1
Vanadium	ND		4.0	0.79	ug/L		09/28/23 20:30	10/03/23 20:15	1
Zinc	ND		10	4.0	ug/L		09/28/23 20:30	10/03/23 20:15	1

Lab Sample ID: MB 410-425151/1-A
Matrix: Water
Analysis Batch: 427229

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 425151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		1.0	0.40	ug/L		09/28/23 20:30	10/04/23 09:27	1

Lab Sample ID: LCS 410-425151/2-A
Matrix: Water
Analysis Batch: 426959

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 425151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	101		ug/L		101	85 - 115
Aluminum	5000	5230		ug/L		105	85 - 115
Arsenic	500	505		ug/L		101	85 - 115
Barium	500	517		ug/L		103	85 - 115
Beryllium	50.0	48.7		ug/L		97	85 - 115
Cadmium	50.0	51.7		ug/L		103	85 - 115
Calcium	5000	5320		ug/L		106	85 - 115
Chromium	500	514		ug/L		103	85 - 115
Cobalt	500	524		ug/L		105	85 - 115
Copper	500	508		ug/L		102	85 - 115
Iron	5000	5220		ug/L		104	85 - 115
Lead	50.0	51.4		ug/L		103	85 - 115
Magnesium	5000	5130		ug/L		103	85 - 115
Manganese	500	517		ug/L		103	85 - 115
Nickel	500	527		ug/L		105	85 - 115

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-425151/2-A
Matrix: Water
Analysis Batch: 426959

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 425151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	5000	5210		ug/L		104	85 - 115
Selenium	100	99.6		ug/L		100	85 - 115
Silver	50.0	51.4		ug/L		103	85 - 115
Sodium	5000	5050		ug/L		101	85 - 115
Thallium	100	102		ug/L		102	85 - 115
Vanadium	500	519		ug/L		104	85 - 115
Zinc	500	509		ug/L		102	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-425194/1-A
Matrix: Water
Analysis Batch: 425470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 425194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		09/28/23 23:56	09/29/23 09:16	1

Lab Sample ID: LCS 410-425194/2-A
Matrix: Water
Analysis Batch: 425470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 425194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.00101		mg/L		101	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-425669/1
Matrix: Water
Analysis Batch: 425669

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			09/29/23 20:36	1

Lab Sample ID: LCS 410-425669/2
Matrix: Water
Analysis Batch: 425669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil & Grease)	40.0	36.40		mg/L		91	78 - 114

Lab Sample ID: LCSD 410-425669/3
Matrix: Water
Analysis Batch: 425669

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	35.90		mg/L		90	78 - 114	1	13

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-425165/3
Matrix: Water
Analysis Batch: 425165

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			09/28/23 21:06	1

Lab Sample ID: LCS 410-425165/4
Matrix: Water
Analysis Batch: 425165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Turbidity	10.0	10		NTU		101	86 - 110

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-425237/11
Matrix: Water
Analysis Batch: 425237

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			09/28/23 19:40	1

Lab Sample ID: LCS 410-425237/12
Matrix: Water
Analysis Batch: 425237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	189	183		mg/L		97	66 - 110

Lab Sample ID: LCSD 410-425237/13
Matrix: Water
Analysis Batch: 425237

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	189	183		mg/L		97	66 - 110	0	10

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-425473/16
Matrix: Water
Analysis Batch: 425473

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			09/29/23 07:47	1

Lab Sample ID: LCS 410-425473/17
Matrix: Water
Analysis Batch: 425473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Hardness	40.0	38.7		mg/L		97	90 - 110

Method: 2340C-2011 - Hardness, Total (Continued)

Lab Sample ID: 410-144543-1 DU
Matrix: Groundwater
Analysis Batch: 425473

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Hardness	540			537		mg/L				0.2	10

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-425757/3
Matrix: Water
Analysis Batch: 425757

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			09/29/23 18:53	1

Lab Sample ID: LCS 410-425757/4
Matrix: Water
Analysis Batch: 425757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			1410	1400		umhos/cm		99	90 - 110		

Method: 2540C - 2015 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-424703/1
Matrix: Water
Analysis Batch: 424703

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			09/28/23 06:37	1

Lab Sample ID: LCS 410-424703/2
Matrix: Water
Analysis Batch: 424703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			200	198		mg/L		99	90 - 110		

Lab Sample ID: 410-144543-1 MS
Matrix: Groundwater
Analysis Batch: 424703

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	1200		1600	2680		mg/L		94	90 - 110		

Lab Sample ID: 410-144543-1 DU
Matrix: Groundwater
Analysis Batch: 424703

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1200			1060	F5	mg/L				11	10

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-425578/1
Matrix: Water
Analysis Batch: 425578

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.0	1.0	mg/L			09/29/23 16:17	1

Lab Sample ID: LCS 410-425578/2
Matrix: Water
Analysis Batch: 425578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	144		mg/L		96	89 - 105

Method: 2540F-2015 - Solids, Settleable

Lab Sample ID: MB 410-425126/1
Matrix: Water
Analysis Batch: 425126

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			09/28/23 19:34	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-426849/2-A
Matrix: Water
Analysis Batch: 427400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 426849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		10/03/23 15:40	10/04/23 13:04	1

Lab Sample ID: LCS 410-426849/1-A
Matrix: Water
Analysis Batch: 427400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 426849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	8.86	8.36		mg/L		94	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-426635/1-A
Matrix: Water
Analysis Batch: 427878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 426635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		10/03/23 15:00	10/04/23 14:38	1

Lab Sample ID: LCS 410-426635/2-A
Matrix: Water
Analysis Batch: 427878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 426635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as PO4	3.99	4.11		mg/L		103	90 - 110

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 410-144543-1 MS
Matrix: Groundwater
Analysis Batch: 427878

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA
Prep Batch: 426635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as PO4	ND		6.13	6.64		mg/L		108	90 - 110

Lab Sample ID: 410-144543-1 DU
Matrix: Groundwater
Analysis Batch: 427878

Client Sample ID: ORS-EFFLUENT
Prep Type: Total/NA
Prep Batch: 426635

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Phosphorus as PO4	ND		ND		mg/L		NC	4

Method: 410.4 - COD

Lab Sample ID: MB 410-425236/4
Matrix: Water
Analysis Batch: 425236

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			09/29/23 03:17	1

Lab Sample ID: LCS 410-425236/5
Matrix: Water
Analysis Batch: 425236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	500	509		mg/L		102	90 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-425484/19
Matrix: Water
Analysis Batch: 425484

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			09/29/23 09:58	1

Lab Sample ID: LCS 410-425484/17
Matrix: Water
Analysis Batch: 425484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.235		mg/L		94	90 - 110

Lab Sample ID: LCSD 410-425484/18
Matrix: Water
Analysis Batch: 425484

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.250	0.238		mg/L		95	90 - 110	1	6

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-425238/14
Matrix: Water
Analysis Batch: 425238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		101	95 - 105

Lab Sample ID: LCSD 410-425238/15
Matrix: Water
Analysis Batch: 425238

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH	7.00	7.0		S.U.		100	95 - 105	0	3

Method: 5210 B-2016 - BOD, 5-Day

Lab Sample ID: SCB 410-427399/4
Matrix: Water
Analysis Batch: 427399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.987		0.0000010	0.0000010	mg/L			09/28/23 12:35	1

Lab Sample ID: USB 410-427399/2
Matrix: Water
Analysis Batch: 427399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.200		0.0000010	0.0000010	mg/L			09/28/23 12:35	1

Lab Sample ID: LCS 410-427399/27
Matrix: Water
Analysis Batch: 427399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	168		mg/L		85	85 - 115

Lab Sample ID: LCS 410-427399/49
Matrix: Water
Analysis Batch: 427399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	174		mg/L		88	85 - 115

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 410-425968/4
Matrix: Water
Analysis Batch: 425968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000	500	ug/L			09/28/23 15:39	1
TOC Result 1	ND		1000	500	ug/L			09/28/23 15:39	1
TOC Result 2	ND		1000	500	ug/L			09/28/23 15:39	1
TOC Result 3	ND		1000	500	ug/L			09/28/23 15:39	1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 410-425968/4
Matrix: Water
Analysis Batch: 425968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 4	ND		1000	500	ug/L			09/28/23 15:39	1

Lab Sample ID: LCS 410-425968/3
Matrix: Water
Analysis Batch: 425968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	25000	25800		ug/L		103	91 - 113

GC/MS VOA

Analysis Batch: 424966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	624.1	
410-144543-2	QAQC_TB	Total/NA	Water	624.1	
MB 410-424966/5	Method Blank	Total/NA	Water	624.1	
LCS 410-424966/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-424966/1004	Lab Control Sample	Total/NA	Water	624.1	
410-144543-1 MS	ORS-EFFLUENT	Total/NA	Groundwater	624.1	
410-144543-1 MSD	ORS-EFFLUENT	Total/NA	Groundwater	624.1	

Analysis Batch: 426971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	8260D	
MB 410-426971/6	Method Blank	Total/NA	Water	8260D	
LCS 410-426971/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 426836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	625.1	
MB 410-426836/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-426836/4-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-426836/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 427045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	625.1	426836
MB 410-426836/1-A	Method Blank	Total/NA	Water	625.1	426836
LCS 410-426836/4-A	Lab Control Sample	Total/NA	Water	625.1	426836
LCSD 410-426836/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	426836

GC VOA

Analysis Batch: 428933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	RSK-175	429006
MB 410-429006/1-A	Method Blank	Total/NA	Water	RSK-175	429006
LCS 410-429006/2-A	Lab Control Sample	Total/NA	Water	RSK-175	429006
LCSD 410-429006/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	429006

Prep Batch: 429006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	RSK-175	
MB 410-429006/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-429006/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-429006/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 426391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-426391/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	

HPLC/IC (Continued)

Analysis Batch: 426391 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-426391/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-426391/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 426925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-426925/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-426925/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-426925/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 425151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	
MB 410-425151/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-425151/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Prep Batch: 425194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	245.1	
MB 410-425194/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-425194/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 425470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	245.1	425194
MB 410-425194/1-A	Method Blank	Total/NA	Water	245.1	425194
LCS 410-425194/2-A	Lab Control Sample	Total/NA	Water	245.1	425194

Analysis Batch: 426959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	425151
410-144543-1	ORS-EFFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	425151
MB 410-425151/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	425151
LCS 410-425151/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	425151

Analysis Batch: 427229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	425151
MB 410-425151/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	425151

General Chemistry

Analysis Batch: 424690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	SM 2330B	

Analysis Batch: 424703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	2540C - 2015	
MB 410-424703/1	Method Blank	Total/NA	Water	2540C - 2015	

General Chemistry (Continued)

Analysis Batch: 424703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-424703/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
410-144543-1 MS	ORS-EFFLUENT	Total/NA	Groundwater	2540C - 2015	
410-144543-1 DU	ORS-EFFLUENT	Total/NA	Groundwater	2540C - 2015	

Analysis Batch: 424861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	353.2	

Analysis Batch: 425126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	2540F-2015	
MB 410-425126/1	Method Blank	Total/NA	Water	2540F-2015	

Analysis Batch: 425165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	180.1	
MB 410-425165/3	Method Blank	Total/NA	Water	180.1	
LCS 410-425165/4	Lab Control Sample	Total/NA	Water	180.1	

Analysis Batch: 425236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	410.4	
MB 410-425236/4	Method Blank	Total/NA	Water	410.4	
LCS 410-425236/5	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 425237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	2320B-2011	
MB 410-425237/11	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-425237/12	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-425237/13	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 425238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	4500 H+ B-2011	
LCS 410-425238/14	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	
LCSD 410-425238/15	Lab Control Sample Dup	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 425473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	2340C-2011	
MB 410-425473/16	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-425473/17	Lab Control Sample	Total/NA	Water	2340C-2011	
410-144543-1 DU	ORS-EFFLUENT	Total/NA	Groundwater	2340C-2011	

Analysis Batch: 425484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	420.4	
MB 410-425484/19	Method Blank	Total/NA	Water	420.4	
LCS 410-425484/17	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-425484/18	Lab Control Sample Dup	Total/NA	Water	420.4	

General Chemistry

Analysis Batch: 425578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	2540D-2015	
MB 410-425578/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-425578/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 425669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	1664A	
MB 410-425669/1	Method Blank	Total/NA	Water	1664A	
LCS 410-425669/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-425669/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 425757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	2510B-2011	
MB 410-425757/3	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-425757/4	Lab Control Sample	Total/NA	Water	2510B-2011	

Analysis Batch: 425968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	9060A	
MB 410-425968/4	Method Blank	Total/NA	Water	9060A	
LCS 410-425968/3	Lab Control Sample	Total/NA	Water	9060A	

Prep Batch: 426635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	365.1	
MB 410-426635/1-A	Method Blank	Total/NA	Water	365.1	
LCS 410-426635/2-A	Lab Control Sample	Total/NA	Water	365.1	
410-144543-1 MS	ORS-EFFLUENT	Total/NA	Groundwater	365.1	
410-144543-1 DU	ORS-EFFLUENT	Total/NA	Groundwater	365.1	

Prep Batch: 426849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	351.2	
MB 410-426849/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-426849/1-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 427399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	5210 B-2016	
SCB 410-427399/4	Method Blank	Total/NA	Water	5210 B-2016	
USB 410-427399/2	Method Blank	Total/NA	Water	5210 B-2016	
LCS 410-427399/27	Lab Control Sample	Total/NA	Water	5210 B-2016	
LCS 410-427399/49	Lab Control Sample	Total/NA	Water	5210 B-2016	

Analysis Batch: 427400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	351.2	426849
MB 410-426849/2-A	Method Blank	Total/NA	Water	351.2	426849
LCS 410-426849/1-A	Lab Control Sample	Total/NA	Water	351.2	426849

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144543-1
Project/Site: EMGPRP-31097

General Chemistry

Analysis Batch: 427878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144543-1	ORS-EFFLUENT	Total/NA	Groundwater	365.1	426635
MB 410-426635/1-A	Method Blank	Total/NA	Water	365.1	426635
LCS 410-426635/2-A	Lab Control Sample	Total/NA	Water	365.1	426635
410-144543-1 MS	ORS-EFFLUENT	Total/NA	Groundwater	365.1	426635
410-144543-1 DU	ORS-EFFLUENT	Total/NA	Groundwater	365.1	426635

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144543-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-EFFLUENT
Lab Sample ID: 410-144543-1

Date Collected: 09/27/23 08:50
Matrix: Groundwater
Date Received: 09/27/23 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	424966	UJML	ELLE	09/28/23 17:37
Total/NA	Analysis	8260D		1	426971	K4WN	ELLE	10/04/23 05:53
Total/NA	Prep	625.1			426836	QJZ6	ELLE	10/03/23 15:34
Total/NA	Analysis	625.1		1	427045	GLQ9	ELLE	10/04/23 16:23
Total/NA	Prep	RSK-175			429006	HQR6	ELLE	10/09/23 10:55
Total/NA	Analysis	RSK-175		1	428933	LXF2	ELLE	10/09/23 14:58
Total/NA	Analysis	EPA 300.0 R2.1		200	426925	W7FX	ELLE	10/03/23 14:27
Total/NA	Analysis	EPA 300.0 R2.1		20	426391	L4QM	ELLE	10/02/23 17:21
Total Recoverable	Prep	200.8 Rev 5.4			425151	UAMX	ELLE	09/28/23 20:30
Total Recoverable	Analysis	200.8 Rev 5.4		1	426959	UCIG	ELLE	10/03/23 20:52
Total Recoverable	Prep	200.8 Rev 5.4			425151	UAMX	ELLE	09/28/23 20:30
Total Recoverable	Analysis	200.8 Rev 5.4		5	426959	UCIG	ELLE	10/03/23 21:04
Total Recoverable	Prep	200.8 Rev 5.4			425151	UAMX	ELLE	09/28/23 20:30
Total Recoverable	Analysis	200.8 Rev 5.4		1	427229	F7JF	ELLE	10/04/23 09:31
Total/NA	Prep	245.1			425194	UAMX	ELLE	09/28/23 23:56
Total/NA	Analysis	245.1		1	425470	UEFS	ELLE	09/29/23 09:27
Total/NA	Analysis	1664A		1	425669	QT6L	ELLE	09/29/23 20:36
Total/NA	Analysis	180.1		1	425165	UDS7	ELLE	09/28/23 21:06
Total/NA	Analysis	2320B-2011		1	425237	DI9Q	ELLE	09/28/23 20:35
Total/NA	Analysis	2340C-2011		10	425473	USAE	ELLE	09/29/23 09:35
Total/NA	Analysis	2510B-2011		1	425757	DI9Q	ELLE	09/29/23 20:41
Total/NA	Analysis	2540C - 2015		1	424703	M98K	ELLE	09/28/23 06:37
Total/NA	Analysis	2540D-2015		1	425578	UOCA	ELLE	09/29/23 16:17 - 10/02/23 08:30 [1]
Total/NA	Analysis	2540F-2015		1	425126	DI9Q	ELLE	09/28/23 19:34
Total/NA	Prep	351.2			426849	NLE3	ELLE	10/03/23 15:40 - 10/03/23 18:40 [1]
Total/NA	Analysis	351.2		1	427400	JCG7	ELLE	10/04/23 13:41
Total/NA	Analysis	353.2		1	424861	UKJF	ELLE	09/28/23 09:48
Total/NA	Prep	365.1			426635	PQ9E	ELLE	10/03/23 15:00 - 10/03/23 16:00 [1]
Total/NA	Analysis	365.1		1	427878	JCG7	ELLE	10/04/23 14:38
Total/NA	Analysis	410.4		1	425236	USAE	ELLE	09/29/23 03:17
Total/NA	Analysis	420.4		1	425484	Q3HN	ELLE	09/29/23 10:10
Total/NA	Analysis	4500 H+ B-2011		1	425238	DI9Q	ELLE	09/28/23 20:35
Total/NA	Analysis	5210 B-2016		1	427399	B6LN	ELLE	09/28/23 19:00
Total/NA	Analysis	9060A		1	425968	P684	ELLE	09/28/23 17:24
Total/NA	Analysis	SM 2330B		1	424690	USJM	ELLE	09/28/23 05:04

Client Sample ID: QAQC_TB
Lab Sample ID: 410-144543-2

Date Collected: 06/07/23 00:00
Matrix: Water
Date Received: 09/27/23 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	424966	UJML	ELLE	09/28/23 17:14

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144543-1
Project/Site: EMGPRP-31097

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144543-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

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
365.1	365.1	Groundwater	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile
624.1		Groundwater	Methyl iodide
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane
624.1		Groundwater	n-Propyl acetate
624.1		Groundwater	N-Propylbenzene
624.1		Groundwater	p-Isopropyltoluene

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144543-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144543-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
SM 2330B		Groundwater	Langelier Index

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144543-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	EPA	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C - 2015	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
2540F-2015	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	EPA	ELLE
420.4	Phenolics, Total Recoverable	EPA	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2016	BOD, 5-Day	SM	ELLE
9060A	Organic Carbon, Total (TOC)	SW846	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater ", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144543-1
Project/Site: EMGPRP-31097

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-144543-1	ORS-EFFLUENT	Groundwater	09/27/23 08:50	09/27/23 19:15
410-144543-2	QAQC_TB	Water	06/07/23 00:00	09/27/23 19:15

410-144543 Chain of Custody

ExxonMobil Analysis Request/Chain of Custody

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Acct. # 13438 Group # _____ Sample # _____

EMES-Eurofins Agreement # A2604415

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.		
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097
Consultant PM:	Courtney Lind	P.O. #: 0172.0030Y090	WAL# 5036
Sampler:	DK	XOM PM:	Michael J Burghardt
Bill to:	☐ XOM ☑ Consultant		
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐

Matrix: ☐ Soil ☐ Sediment ☐ Tissue ☐ Water ☑ Potable ☐ Ground ☐ NPDES ☑ Surface ☐ Other: Trip Blank

Sample Identification	Collection Date	Collection Time	Grab	Composite	Total # of Containers	VOCs (624.1) MEK, Acetone, MTBE	200.8, 245.1	625.1_PREC - (MOD) Priority Pollutants SVOCs	300_ORGFM_28D - (MOD) Chloride/Sulfate	SM5210B_Calc - BOD, 5-Day Only	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved	351.2, 365.1, 410.4	2320B, 2510B, 2540C_SingleDry	420.4 - Phenols	353.2_Nitrite - Nitrogen, Nitrite	2540D_Single_Dry - TSS	SM2540F - Settleable Solids	Turbidity (180.1)	SM2330B - Local Method	2340C - Local Method	Oil&Grease (1664A)	RSK_175 Methane Ethane Ethene	9060A - Organic Carbon, Total (TOC)	8015C TPH-DRO/ORO Standard TPH-DRO/ORO	TPH-GRO (8015) #10598	Remarks
						H	N				S	S		S						N	H	H	P	H	H	
ORS-EFFLUENT	9/27/2023	8:50	X		29	6	1	2	1	1	1	2	2	1	1	1	1	1	1	1	2	2	2			
QAQC_TB	6/7/2023	–			1	1																				

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

For Lab Use Only: SF #: _____ SCR #: _____

Turnaround Time Requested (TAT) (please check): Standard ☐ Rush ☑

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): (5 day) 4day 72hour 48hour 24hour

	Relinquished by:	Date	Time	Received by:	Date	Time
1		9/27/23	1510	RPMahn	27Sep23	1510
2	RPMahn	27Sep23	1915			
3						
4						
5						

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	OTHER	
Type III (Reduced non-CLP/NJ Reduced)	☐	Standard with QC summary	
TX TRRP-13	☐		
NJ DKQP	☐		
NYSDEC Category	☐ A ☐ B		

EDD Format(s) Needed: EQuIS and Excel

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

Raw S.8 corr S.6

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-144543-1

Login Number: 144543

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Kanagy, Nicholas

Question	Answer	Comment
The cooler's custody seal 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ANALYTICAL REPORT

PREPARED FOR

Attn: Matthew Mueller
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Generated 11/9/2023 11:35:53 AM Revision 1

JOB DESCRIPTION

EMGPRP-31097

JOB NUMBER

410-144546-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

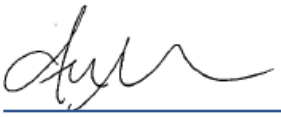
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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11/9/2023 11:35:53 AM
Revision 1

Authorized for release by
Ann-Marie Phillips, Project Management Assistant I
Ann-Marie.Phillips@et.eurofinsus.com
Designee for
Megan Moeller, Client Services Manager
Megan.Moeller@et.eurofinsus.com
(717)556-7261

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

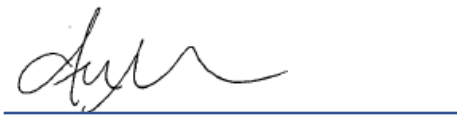


Table of Contents

Definitions/Glossary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery 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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC 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.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
cn	Refer to Case Narrative for further detail

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Job ID: 410-144546-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-144546-1

REVISION

The report being provided is a revision of the original report sent on 10/12/2023. The report (revision 1) is being revised due to recalculate data for one sample due to an ICAL error.

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 9/27/2023 7:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.9°C and 4.9°C

GC/MS VOA
Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: RECEIVING_WATER-002 (410-144546-2) and QAQC_TB (410-144546-3). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile , which are acid-labile compounds that degrade in an acidic medium.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-428849 recovered outside acceptance criteria, low biased, for 2-Butanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 410-427045 recovered above the upper control limit for 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, Benzoic acid and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015C_DRO: The method blank for preparation batch 410-427122 contained DRO (C10-C28) above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed. RECEIVING_WATER-002 (410-144546-2)

Job ID: 410-144546-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Method 8015C_DRO: DRO (C10-C28) was detected above the reporting limit (RL) in the method blank associated with preparation batch 410-427122 and analytical batch 410-427411 as well as in the following sample: ORS-INFLUENT (410-144546-1). All affected samples were re-extracted and outside of holding time. Since holding time expired prior to re-analysis, data from the first trial is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 410-144546-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.56	J	1.0	0.30	ug/L	1		624.1	Total/NA
1,1-Dichloroethene	0.91	J	1.0	0.30	ug/L	1		624.1	Total/NA
1,2,4-Trimethylbenzene	16		1.0	0.20	ug/L	1		624.1	Total/NA
1,2-Dichloroethane	6.7		1.0	0.30	ug/L	1		624.1	Total/NA
1,2-Dichloroethene (total)	52		1.0	0.20	ug/L	1		624.1	Total/NA
1,3,5-Trimethylbenzene	6.7		1.0	0.20	ug/L	1		624.1	Total/NA
Benzene	180		1.0	0.25	ug/L	1		624.1	Total/NA
Chlorobenzene	0.50	J	1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	51		1.0	0.20	ug/L	1		624.1	Total/NA
Cyclohexane	55		1.0	0.30	ug/L	1		624.1	Total/NA
Ethylbenzene	15		1.0	0.20	ug/L	1		624.1	Total/NA
Isopropylbenzene	4.8		2.0	0.50	ug/L	1		624.1	Total/NA
m&p-Xylene	80		1.0	0.30	ug/L	1		624.1	Total/NA
Naphthalene	10		1.0	0.20	ug/L	1		624.1	Total/NA
n-Butylbenzene	0.57	J	1.0	0.20	ug/L	1		624.1	Total/NA
n-Hexane	5.5		1.0	0.46	ug/L	1		624.1	Total/NA
N-Propylbenzene	4.5		1.0	0.20	ug/L	1		624.1	Total/NA
o-Xylene	15		1.0	0.20	ug/L	1		624.1	Total/NA
p-Isopropyltoluene	0.48	J	1.0	0.20	ug/L	1		624.1	Total/NA
sec-Butylbenzene	0.69	J	1.0	0.20	ug/L	1		624.1	Total/NA
t-Butyl alcohol	6.4	J	20	6.0	ug/L	1		624.1	Total/NA
tert-Butylbenzene	0.23	J	1.0	0.20	ug/L	1		624.1	Total/NA
Tetrachloroethene	180		1.0	0.30	ug/L	1		624.1	Total/NA
Toluene	11		1.0	0.20	ug/L	1		624.1	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.30	ug/L	1		624.1	Total/NA
Trichloroethene	130		1.0	0.20	ug/L	1		624.1	Total/NA
Vinyl chloride	4.6		1.0	0.40	ug/L	1		624.1	Total/NA
Xylenes, Total	95		1.0	0.20	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	12		1.0	0.20	ug/L	1		8260D	Total/NA
Acetone	11	J	20	0.70	ug/L	1		8260D	Total/NA
1-Methylnaphthalene	5.5		5.4	0.38	ug/L	1		625.1	Total/NA
2-Methylnaphthalene	4.0	J	5.4	0.21	ug/L	1		625.1	Total/NA
Acenaphthene	0.31	J	5.4	0.27	ug/L	1		625.1	Total/NA
Naphthalene	6.8		2.1	0.32	ug/L	1		625.1	Total/NA
Phenanthrene	0.25	J	5.4	0.21	ug/L	1		625.1	Total/NA
GRO (1C)	1900		50	23	ug/L	1		8015C	Total/NA
Methane (1C) - DL	1500		25	15	ug/L	5		RSK-175	Total/NA
DRO (C10-C28) (1C)	0.47	B cn	0.11	0.047	mg/L	1		8015C	Total/NA
Sulfate	120		30	10	mg/L	20		EPA 300.0 R2.1	Total/NA
Chloride	580		300	120	mg/L	200		EPA 300.0 R2.1	Total/NA
Arsenic	3.2		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	230		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	140000		600	250	ug/L	5		200.8 Rev 5.4	Total Recoverable
Cobalt	2.1		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	1.2		1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	4900		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: ORS-INFLUENT (Continued) — Lab Sample ID: 410-144546-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	51000	^2	50	16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2200		2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	4.2		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	6600		200	65	ug/L	1		200.8 Rev 5.4	Total Recoverable
Selenium	1.6		1.0	0.28	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	350000	^2	1000	450	ug/L	5		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	2.2	J	5.4	1.5	mg/L	1		1664A	Total/NA
Turbidity	60		5.0	5.0	NTU	5		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	370		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	620		100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	2700		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	1700		240	96	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	7.8		3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	1.1		1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	1.2		0.10	0.040	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	47	J	75	25	mg/L	1		410.4	Total/NA
Phenols, Total	0.017	J	0.020	0.010	mg/L	1		420.4	Total/NA
pH	7.5	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	21.9	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Total Organic Carbon	3200		1000	500	ug/L	1		9060A	Total/NA
TOC Result 1	3100		1000	500	ug/L	1		9060A	Total/NA
TOC Result 2	3200		1000	500	ug/L	1		9060A	Total/NA
TOC Result 3	3300		1000	500	ug/L	1		9060A	Total/NA
TOC Result 4	3200		1000	500	ug/L	1		9060A	Total/NA
Langelier Index	0.62				LangSU	1		SM 2330B	Total/NA

Client Sample ID: RECEIVING_WATER-002 — Lab Sample ID: 410-144546-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	20	0.70	ug/L	1		8260D	Total/NA
GRO (1C)	31	J	50	23	ug/L	1		8015C	Total/NA
Methane (1C)	4.2	J	5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	1500		1500	500	mg/L	1000		EPA 300.0 R2.1	Total/NA
Chloride	10000	F1	7500	3000	mg/L	5000		EPA 300.0 R2.1	Total/NA
Antimony	0.36	J	1.0	0.20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Aluminum	65		30	12	ug/L	1		200.8 Rev 5.4	Total Recoverable
Arsenic	2.2		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	23		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	280000		1200	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
Cobalt	0.27	J	0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	2.6		1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: RECEIVING_WATER-002 (Continued)
Lab Sample ID: 410-144546-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	230		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Lead	1.9		0.50	0.12	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	830000	^2	500	160	ug/L	10		200.8 Rev 5.4	Total Recoverable
Manganese	120		2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	1.4		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	250000		2000	650	ug/L	10		200.8 Rev 5.4	Total Recoverable
Sodium	6700000	^2	20000	9000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Vanadium	2.1	J	4.0	0.79	ug/L	1		200.8 Rev 5.4	Total Recoverable
Zinc	12		10	4.0	ug/L	1		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	2.6	J	5.2	1.5	mg/L	1		1664A	Total/NA
Turbidity	2.8		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Specific Conductance	42000		500	170	umhos/cm	100		2510B-2011	Total/NA
Total Dissolved Solids	6200		600	240	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	5.2		3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	0.79	J	1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.42		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.59		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	690		190	63	mg/L	2.5		410.4	Total/NA
Phenols, Total	0.33		0.040	0.020	mg/L	2		420.4	Total/NA
pH	7.5	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	21.9	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Total Organic Carbon	1600		1000	500	ug/L	1		9060A	Total/NA
TOC Result 1	1600		1000	500	ug/L	1		9060A	Total/NA
TOC Result 2	1600		1000	500	ug/L	1		9060A	Total/NA
TOC Result 3	1700		1000	500	ug/L	1		9060A	Total/NA
TOC Result 4	1600		1000	500	ug/L	1		9060A	Total/NA
Langelier Index	0.20				LangSU	1		SM 2330B	Total/NA

Client Sample ID: QAQC_TB
Lab Sample ID: 410-144546-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: ORS-INFLUENT

Date Collected: 09/27/23 08:25
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-1

Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/29/23 16:07	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/29/23 16:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/29/23 16:07	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/29/23 16:07	1
1,1-Dichloroethane	**0.56**	**J**	1.0	0.30	ug/L			09/29/23 16:07	1
1,1-Dichloroethene	**0.91**	**J**	1.0	0.30	ug/L			09/29/23 16:07	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 16:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 16:07	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/29/23 16:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 16:07	1
1,2,4-Trimethylbenzene	**16**		1.0	0.20	ug/L			09/29/23 16:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/29/23 16:07	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/29/23 16:07	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 16:07	1
1,2-Dichloroethane	**6.7**		1.0	0.30	ug/L			09/29/23 16:07	1
1,2-Dichloroethene (total)	**52**		1.0	0.20	ug/L			09/29/23 16:07	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/29/23 16:07	1
1,3,5-Trimethylbenzene	**6.7**		1.0	0.20	ug/L			09/29/23 16:07	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 16:07	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/29/23 16:07	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 16:07	1
1,4-Dioxane	ND		100	82	ug/L			09/29/23 16:07	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/29/23 16:07	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/29/23 16:07	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			09/29/23 16:07	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/29/23 16:07	1
2-Hexanone	ND		2.0	0.50	ug/L			09/29/23 16:07	1
2-Propanol	ND		20	8.0	ug/L			09/29/23 16:07	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/29/23 16:07	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/29/23 16:07	1
Acetonitrile	ND		50	14	ug/L			09/29/23 16:07	1
Benzene	**180**		1.0	0.25	ug/L			09/29/23 16:07	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/29/23 16:07	1
Bromobenzene	ND		1.0	0.20	ug/L			09/29/23 16:07	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/29/23 16:07	1
Bromoform	ND		1.0	0.30	ug/L			09/29/23 16:07	1
Bromomethane	ND		1.0	0.44	ug/L			09/29/23 16:07	1
Butyl acetate	ND		5.0	0.60	ug/L			09/29/23 16:07	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/29/23 16:07	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/29/23 16:07	1
Chlorobenzene	**0.50**	**J**	1.0	0.20	ug/L			09/29/23 16:07	1
Chloroethane	ND		1.0	0.44	ug/L			09/29/23 16:07	1
Chloroform	ND		1.0	0.30	ug/L			09/29/23 16:07	1
Chloromethane	ND		1.0	0.64	ug/L			09/29/23 16:07	1
cis-1,2-Dichloroethene	**51**		1.0	0.20	ug/L			09/29/23 16:07	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 16:07	1
Cyclohexane	**55**		1.0	0.30	ug/L			09/29/23 16:07	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/29/23 16:07	1
Dibromomethane	ND		1.0	0.20	ug/L			09/29/23 16:07	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: ORS-INFLUENT
Date Collected: 09/27/23 08:25
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-1
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/29/23 16:07	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/29/23 16:07	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/29/23 16:07	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/29/23 16:07	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/29/23 16:07	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/29/23 16:07	1
Ethylbenzene	**15**		1.0	0.20	ug/L			09/29/23 16:07	1
Freon 113	ND		1.0	0.30	ug/L			09/29/23 16:07	1
Freon 123a	ND		1.0	0.44	ug/L			09/29/23 16:07	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/29/23 16:07	1
Isobutyl alcohol	ND		50	12	ug/L			09/29/23 16:07	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/29/23 16:07	1
Isopropylbenzene	**4.8**		2.0	0.50	ug/L			09/29/23 16:07	1
m&p-Xylene	**80**		1.0	0.30	ug/L			09/29/23 16:07	1
Methacrylonitrile	ND		10	2.0	ug/L			09/29/23 16:07	1
Methyl iodide	ND		1.0	0.30	ug/L			09/29/23 16:07	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/29/23 16:07	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/29/23 16:07	1
Naphthalene	**10**		1.0	0.20	ug/L			09/29/23 16:07	1
n-Butylbenzene	**0.57**	**J**	1.0	0.20	ug/L			09/29/23 16:07	1
n-Heptane	ND		1.0	0.40	ug/L			09/29/23 16:07	1
n-Hexane	**5.5**		1.0	0.46	ug/L			09/29/23 16:07	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/29/23 16:07	1
N-Propylbenzene	**4.5**		1.0	0.20	ug/L			09/29/23 16:07	1
o-Xylene	**15**		1.0	0.20	ug/L			09/29/23 16:07	1
p-Isopropyltoluene	**0.48**	**J**	1.0	0.20	ug/L			09/29/23 16:07	1
Propionitrile	ND		20	8.5	ug/L			09/29/23 16:07	1
sec-Butylbenzene	**0.69**	**J**	1.0	0.20	ug/L			09/29/23 16:07	1
Styrene	ND		1.0	0.20	ug/L			09/29/23 16:07	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/29/23 16:07	1
t-Butyl alcohol	**6.4**	**J**	20	6.0	ug/L			09/29/23 16:07	1
tert-Butylbenzene	**0.23**	**J**	1.0	0.20	ug/L			09/29/23 16:07	1
Tetrachloroethene	**180**		1.0	0.30	ug/L			09/29/23 16:07	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/29/23 16:07	1
Toluene	**11**		1.0	0.20	ug/L			09/29/23 16:07	1
trans-1,2-Dichloroethene	**1.3**		1.0	0.30	ug/L			09/29/23 16:07	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 16:07	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/29/23 16:07	1
Trichloroethene	**130**		1.0	0.20	ug/L			09/29/23 16:07	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/29/23 16:07	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/29/23 16:07	1
Vinyl chloride	**4.6**		1.0	0.40	ug/L			09/29/23 16:07	1
Xylenes, Total	**95**		1.0	0.20	ug/L			09/29/23 16:07	1
Acrolein	ND		10	3.0	ug/L			09/29/23 16:07	1
Acrylonitrile	ND		3.0	1.1	ug/L			09/29/23 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*09/29/23 16:07*	*1*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*09/29/23 16:07*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*09/29/23 16:07*	*1*

Client Sample ID: ORS-INFLUENT
Date Collected: 09/27/23 08:25
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-1
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*60 - 140*		*09/29/23 16:07*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**12**		1.0	0.20	ug/L			10/09/23 15:57	1
Acetone	**11**	**J**	20	0.70	ug/L			10/09/23 15:57	1
2-Butanone	ND	cn	10	0.50	ug/L			10/09/23 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*10/09/23 15:57*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*10/09/23 15:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/09/23 15:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/09/23 15:57*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
1,2,4,5-Tetrachlorobenzene	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
1,2,4-Trichlorobenzene	ND		1.1	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
1,2-Dichlorobenzene	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
1,2-Diphenylhydrazine	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
1,3-Dichlorobenzene	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
1,4-Dichlorobenzene	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
1,4-Dioxane	ND		5.4	2.1	ug/L		10/03/23 15:34	10/04/23 20:25	1
1-Methylnaphthalene	**5.5**		5.4	0.38	ug/L		10/03/23 15:34	10/04/23 20:25	1
1-Methylphenanthrene	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2,2'-oxybis[1-chloropropane]	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2,3,4,6-Tetrachlorophenol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2,3-Dichloroaniline	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2,4,5-Trichlorophenol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2,4,6-Trichlorophenol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2,4-Dichlorophenol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2,4-Dimethylphenol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2,4-Dinitrophenol	ND		11	2.1	ug/L		10/03/23 15:34	10/04/23 20:25	1
2,4-Dinitrotoluene	ND	cn	5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2,6-Dichlorophenol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2,6-Dinitrotoluene	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2-Chloronaphthalene	ND		5.4	1.1	ug/L		10/03/23 15:34	10/04/23 20:25	1
2-Chlorophenol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2-Methylnaphthalene	**4.0**	**J**	5.4	0.21	ug/L		10/03/23 15:34	10/04/23 20:25	1
2-Methylphenol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2-Nitroaniline	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
2-Nitrophenol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
3,3'-Dichlorobenzidine	ND		5.4	0.86	ug/L		10/03/23 15:34	10/04/23 20:25	1
3-Nitroaniline	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
4,6-Dinitro-2-methylphenol	ND	cn	11	2.1	ug/L		10/03/23 15:34	10/04/23 20:25	1
4-Bromophenyl-phenylether	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
4-Chloro-3-methylphenol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
4-Chloroaniline	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
4-Chlorophenyl-phenylether	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: ORS-INFLUENT

Date Collected: 09/27/23 08:25
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-1

Matrix: Groundwater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
4-Nitroaniline	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
4-Nitrophenol	ND		5.4	0.97	ug/L		10/03/23 15:34	10/04/23 20:25	1
Acenaphthene	**0.31**	**J**	5.4	0.27	ug/L		10/03/23 15:34	10/04/23 20:25	1
Acenaphthylene	ND		5.4	0.21	ug/L		10/03/23 15:34	10/04/23 20:25	1
Acetophenone	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Aniline	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Anthracene	ND		5.4	0.27	ug/L		10/03/23 15:34	10/04/23 20:25	1
a-Terpineol	ND		5.4	0.64	ug/L		10/03/23 15:34	10/04/23 20:25	1
Benzidine	ND		64	6.4	ug/L		10/03/23 15:34	10/04/23 20:25	1
Benzo[a]anthracene	ND		5.4	0.27	ug/L		10/03/23 15:34	10/04/23 20:25	1
Benzo[a]pyrene	ND		5.4	0.27	ug/L		10/03/23 15:34	10/04/23 20:25	1
Benzo[b]fluoranthene	ND		5.4	0.27	ug/L		10/03/23 15:34	10/04/23 20:25	1
Benzo[g,h,i]perylene	ND		5.4	0.32	ug/L		10/03/23 15:34	10/04/23 20:25	1
Benzo[k]fluoranthene	ND		5.4	0.21	ug/L		10/03/23 15:34	10/04/23 20:25	1
Benzoic acid	ND	cn	32	4.3	ug/L		10/03/23 15:34	10/04/23 20:25	1
Benzyl alcohol	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Bis(2-chloroethoxy)methane	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Bis(2-chloroethyl)ether	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Bis(2-ethylhexyl) phthalate	ND		5.4	1.1	ug/L		10/03/23 15:34	10/04/23 20:25	1
Butylbenzylphthalate	ND		5.4	1.1	ug/L		10/03/23 15:34	10/04/23 20:25	1
Carbazole	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Chrysene	ND		5.4	0.21	ug/L		10/03/23 15:34	10/04/23 20:25	1
Dibenz(a,h)anthracene	ND		5.4	0.32	ug/L		10/03/23 15:34	10/04/23 20:25	1
Dibenzofuran	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Diethylphthalate	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Dimethylphthalate	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Di-n-butyl phthalate	ND		5.4	1.1	ug/L		10/03/23 15:34	10/04/23 20:25	1
Di-n-octyl phthalate	ND	cn	5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Diphenyl ether	ND		5.4	0.81	ug/L		10/03/23 15:34	10/04/23 20:25	1
Fluoranthene	ND		5.4	0.21	ug/L		10/03/23 15:34	10/04/23 20:25	1
Fluorene	ND		5.4	0.21	ug/L		10/03/23 15:34	10/04/23 20:25	1
Hexachlorobenzene	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Hexachlorobutadiene	ND		2.1	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Hexachlorocyclopentadiene	ND		16	3.2	ug/L		10/03/23 15:34	10/04/23 20:25	1
Hexachloroethane	ND		2.1	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Indeno[1,2,3-cd]pyrene	ND		5.4	0.32	ug/L		10/03/23 15:34	10/04/23 20:25	1
Isophorone	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Naphthalene	**6.8**		2.1	0.32	ug/L		10/03/23 15:34	10/04/23 20:25	1
n-Decane	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
n-Docosane	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
n-Eicosane	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
n-Hexadecane	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Nitrobenzene	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
N-Nitrosodiethylamine	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
N-Nitrosodimethylamine	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
N-Nitrosodi-n-butylamine	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
N-Nitrosodi-n-propylamine	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
N-Nitrosodiphenylamine	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 410-144546-1
Date Collected: 09/27/23 08:25
Matrix: Groundwater
Date Received: 09/27/23 19:15

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
n-Octadecane	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
n-Tetradecane	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
o-Toluidine	ND		5.4	1.1	ug/L		10/03/23 15:34	10/04/23 20:25	1
Pentachlorobenzene	ND		5.4	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Pentachlorophenol	ND		5.4	0.86	ug/L		10/03/23 15:34	10/04/23 20:25	1
Phenanthrene	**0.25**	**J**	5.4	0.21	ug/L		10/03/23 15:34	10/04/23 20:25	1
Phenol	ND		1.1	0.54	ug/L		10/03/23 15:34	10/04/23 20:25	1
Pyrene	ND		5.4	0.27	ug/L		10/03/23 15:34	10/04/23 20:25	1
Pyridine	ND		11	0.86	ug/L		10/03/23 15:34	10/04/23 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*31*		*10 - 150*	*10/03/23 15:34*	*10/04/23 20:25*	*1*
2-Fluorobiphenyl (Surr)	*75*		*32 - 115*	*10/03/23 15:34*	*10/04/23 20:25*	*1*
2-Fluorophenol (Surr)	*21*		*10 - 83*	*10/03/23 15:34*	*10/04/23 20:25*	*1*
Nitrobenzene-d5 (Surr)	*69*		*41 - 121*	*10/03/23 15:34*	*10/04/23 20:25*	*1*
Phenol-d5 (Surr)	*17*		*10 - 63*	*10/03/23 15:34*	*10/04/23 20:25*	*1*
p-Terphenyl-d14 (Surr)	*91*		*28 - 134*	*10/03/23 15:34*	*10/04/23 20:25*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	**1900**		50	23	ug/L			09/28/23 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*125*		*63 - 135*		*09/28/23 13:28*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/09/23 10:55	10/09/23 15:17	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/09/23 10:55	10/09/23 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*43*		*43 - 133*	*10/09/23 10:55*	*10/09/23 15:17*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (1C)	**1500**		25	15	ug/L		10/10/23 10:14	10/10/23 14:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*68*		*43 - 133*	*10/10/23 10:14*	*10/10/23 14:48*	*5*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	**0.47**	**B cn**	0.11	0.047	mg/L		10/04/23 08:19	10/05/23 10:30	1
>C28-C35 (1C)	ND		0.11	0.047	mg/L		10/04/23 08:19	10/05/23 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*90*		*32 - 125*	*10/04/23 08:19*	*10/05/23 10:30*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**120**		30	10	mg/L			10/11/23 04:54	20

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 410-144546-1

Date Collected: 09/27/23 08:25
Matrix: Groundwater
Date Received: 09/27/23 19:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**580**		300	120	mg/L			10/10/23 03:42	200

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		10/02/23 20:56	10/03/23 15:40	1
Aluminum	ND		30	12	ug/L		10/02/23 20:56	10/03/23 15:40	1
Arsenic	**3.2**		2.0	0.68	ug/L		10/02/23 20:56	10/03/23 15:40	1
Barium	**230**		2.0	0.75	ug/L		10/02/23 20:56	10/03/23 15:40	1
Beryllium	ND		0.50	0.12	ug/L		10/02/23 20:56	10/03/23 15:40	1
Cadmium	ND		0.50	0.15	ug/L		10/02/23 20:56	10/03/23 15:40	1
Calcium	**140000**		600	250	ug/L		10/02/23 20:56	10/03/23 16:09	5
Chromium	ND		2.0	0.55	ug/L		10/02/23 20:56	10/03/23 15:40	1
Cobalt	**2.1**		0.50	0.16	ug/L		10/02/23 20:56	10/03/23 15:40	1
Copper	**1.2**		1.0	0.36	ug/L		10/02/23 20:56	10/03/23 15:40	1
Iron	**4900**		50	20	ug/L		10/02/23 20:56	10/03/23 15:40	1
Lead	ND		0.50	0.12	ug/L		10/02/23 20:56	10/03/23 15:40	1
Magnesium	**51000**	**^2**	50	16	ug/L		10/02/23 20:56	10/03/23 15:40	1
Manganese	**2200**		2.0	0.95	ug/L		10/02/23 20:56	10/03/23 15:40	1
Nickel	**4.2**		1.0	0.40	ug/L		10/02/23 20:56	10/03/23 15:40	1
Potassium	**6600**		200	65	ug/L		10/02/23 20:56	10/03/23 15:40	1
Selenium	**1.6**		1.0	0.28	ug/L		10/02/23 20:56	10/03/23 15:40	1
Silver	ND		0.50	0.10	ug/L		10/02/23 20:56	10/03/23 15:40	1
Sodium	**350000**	**^2**	1000	450	ug/L		10/02/23 20:56	10/03/23 16:09	5
Thallium	ND		0.50	0.13	ug/L		10/02/23 20:56	10/03/23 15:40	1
Vanadium	ND		4.0	0.79	ug/L		10/02/23 20:56	10/03/23 15:40	1
Zinc	ND		10	4.0	ug/L		10/02/23 20:56	10/03/23 15:40	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/05/23 00:26	10/05/23 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	**2.2**	**J**	5.4	1.5	mg/L			09/29/23 20:36	1
Turbidity (EPA 180.1)	**60**		5.0	5.0	NTU			09/28/23 21:06	5
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**370**		8.0	2.6	mg/L			09/28/23 22:18	1
Total Hardness (SM 2340C-2011)	**620**		100	30	mg/L			09/29/23 09:50	10
Specific Conductance (SM 2510B-2011)	**2700**		5.0	1.7	umhos/cm			09/29/23 20:23	1
Total Dissolved Solids (SM 2540C - 2015)	**1700**		240	96	mg/L			09/29/23 06:50	1
Total Suspended Solids (SM 2540D-2015)	**7.8**		3.0	1.0	mg/L			09/29/23 16:17	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			09/28/23 19:34	1
Total Kjeldahl Nitrogen (EPA 351.2	**1.1**		1.0	0.50	mg/L		10/05/23 14:20	10/09/23 10:52	1
Nitrate as N (EPA 353.2)	**1.2**		0.10	0.040	mg/L			09/28/23 09:48	1
Total Phosphorus as PO4 (EPA 365.1)	ND		0.31	0.25	mg/L		10/09/23 11:59	10/10/23 11:10	1
Chemical Oxygen Demand (EPA 410.4)	**47**	**J**	75	25	mg/L			09/29/23 03:17	1
Phenols, Total (EPA 420.4)	**0.017**	**J**	0.020	0.010	mg/L			09/29/23 11:55	1

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 410-144546-1
Date Collected: 09/27/23 08:25
Matrix: Groundwater
Date Received: 09/27/23 19:15

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B-2011)	7.5	HF	0.01	0.01	S.U.			09/28/23 22:18	1
Temperature (SM 4500 H+ B-2011)	21.9	HF	0.01	0.01	Degrees C			09/28/23 22:18	1
Biochemical Oxygen Demand (SM 5210 B-2016)	ND		2.0	2.0	mg/L			09/28/23 19:00	1
Total Organic Carbon (SW846 9060A)	3200		1000	500	ug/L			10/05/23 12:39	1
TOC Result 1 (SW846 9060A)	3100		1000	500	ug/L			10/05/23 12:39	1
TOC Result 2 (SW846 9060A)	3200		1000	500	ug/L			10/05/23 12:39	1
TOC Result 3 (SW846 9060A)	3300		1000	500	ug/L			10/05/23 12:39	1
TOC Result 4 (SW846 9060A)	3200		1000	500	ug/L			10/05/23 12:39	1
Langelier Index (SM 2330B)	0.62				LangSU			09/28/23 05:04	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: RECEIVING_WATER-002
Date Collected: 09/27/23 09:15
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-2
Matrix: Surface Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/29/23 15:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/29/23 15:44	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/29/23 15:44	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/29/23 15:44	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/29/23 15:44	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/29/23 15:44	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/29/23 15:44	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/29/23 15:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
1,4-Dioxane	ND		100	82	ug/L			09/29/23 15:44	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/29/23 15:44	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/29/23 15:44	1
2-Chloroethyl vinyl ether	ND	F1 cn	1.0	0.50	ug/L			09/29/23 15:44	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/29/23 15:44	1
2-Hexanone	ND		2.0	0.50	ug/L			09/29/23 15:44	1
2-Propanol	ND		20	8.0	ug/L			09/29/23 15:44	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/29/23 15:44	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/29/23 15:44	1
Acetonitrile	ND		50	14	ug/L			09/29/23 15:44	1
Benzene	ND		1.0	0.25	ug/L			09/29/23 15:44	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/29/23 15:44	1
Bromobenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/29/23 15:44	1
Bromoform	ND		1.0	0.30	ug/L			09/29/23 15:44	1
Bromomethane	ND		1.0	0.44	ug/L			09/29/23 15:44	1
Butyl acetate	ND		5.0	0.60	ug/L			09/29/23 15:44	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/29/23 15:44	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/29/23 15:44	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Chloroethane	ND		1.0	0.44	ug/L			09/29/23 15:44	1
Chloroform	ND		1.0	0.30	ug/L			09/29/23 15:44	1
Chloromethane	ND		1.0	0.64	ug/L			09/29/23 15:44	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Cyclohexane	ND		1.0	0.30	ug/L			09/29/23 15:44	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Dibromomethane	ND		1.0	0.20	ug/L			09/29/23 15:44	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: RECEIVING_WATER-002
Date Collected: 09/27/23 09:15
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-2
Matrix: Surface Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/29/23 15:44	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/29/23 15:44	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/29/23 15:44	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/29/23 15:44	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/29/23 15:44	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Freon 113	ND		1.0	0.30	ug/L			09/29/23 15:44	1
Freon 123a	ND		1.0	0.44	ug/L			09/29/23 15:44	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Isobutyl alcohol	ND		50	12	ug/L			09/29/23 15:44	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/29/23 15:44	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/29/23 15:44	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/29/23 15:44	1
Methacrylonitrile	ND		10	2.0	ug/L			09/29/23 15:44	1
Methyl iodide	ND		1.0	0.30	ug/L			09/29/23 15:44	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/29/23 15:44	1
Naphthalene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
n-Heptane	ND		1.0	0.40	ug/L			09/29/23 15:44	1
n-Hexane	ND		1.0	0.46	ug/L			09/29/23 15:44	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/29/23 15:44	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
o-Xylene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Propionitrile	ND		20	8.5	ug/L			09/29/23 15:44	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Styrene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/29/23 15:44	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/29/23 15:44	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Tetrachloroethene	ND		1.0	0.30	ug/L			09/29/23 15:44	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/29/23 15:44	1
Toluene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/29/23 15:44	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/29/23 15:44	1
Trichloroethene	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/29/23 15:44	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/29/23 15:44	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/29/23 15:44	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/29/23 15:44	1
Acrolein	ND	cn	10	3.0	ug/L			09/29/23 15:44	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			09/29/23 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*09/29/23 15:44*	*1*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*09/29/23 15:44*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*09/29/23 15:44*	*1*

Client Sample ID: RECEIVING_WATER-002
Date Collected: 09/27/23 09:15
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-2
Matrix: Surface Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*60 - 140*		*09/29/23 15:44*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/09/23 16:17	1
Acetone	**1.1**	**J**	20	0.70	ug/L			10/09/23 16:17	1
2-Butanone	ND	cn	10	0.50	ug/L			10/09/23 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*10/09/23 16:17*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*10/09/23 16:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*10/09/23 16:17*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/09/23 16:17*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
1,4-Dioxane	ND		5.0	2.0	ug/L		10/03/23 15:34	10/04/23 20:47	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		10/03/23 15:34	10/04/23 20:47	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		10/03/23 15:34	10/04/23 20:47	1
2,4-Dinitrotoluene	ND	cn	5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 20:47	1
2-Chlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 20:47	1
2-Methylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2-Nitroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
2-Nitrophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		10/03/23 15:34	10/04/23 20:47	1
3-Nitroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
4,6-Dinitro-2-methylphenol	ND	cn	10	2.0	ug/L		10/03/23 15:34	10/04/23 20:47	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
4-Chloroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: RECEIVING_WATER-002
Date Collected: 09/27/23 09:15
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-2
Matrix: Surface Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
4-Nitroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
4-Nitrophenol	ND		5.0	0.91	ug/L		10/03/23 15:34	10/04/23 20:47	1
Acenaphthene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 20:47	1
Acenaphthylene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 20:47	1
Acetophenone	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Aniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Anthracene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 20:47	1
a-Terpineol	ND		5.0	0.60	ug/L		10/03/23 15:34	10/04/23 20:47	1
Benzidine	ND		60	6.0	ug/L		10/03/23 15:34	10/04/23 20:47	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 20:47	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 20:47	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 20:47	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		10/03/23 15:34	10/04/23 20:47	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 20:47	1
Benzoic acid	ND	cn	30	4.0	ug/L		10/03/23 15:34	10/04/23 20:47	1
Benzyl alcohol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 20:47	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 20:47	1
Carbazole	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Chrysene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 20:47	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		10/03/23 15:34	10/04/23 20:47	1
Dibenzofuran	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Diethylphthalate	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Dimethylphthalate	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 20:47	1
Di-n-octyl phthalate	ND	cn	5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Diphenyl ether	ND		5.0	0.75	ug/L		10/03/23 15:34	10/04/23 20:47	1
Fluoranthene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 20:47	1
Fluorene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 20:47	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		10/03/23 15:34	10/04/23 20:47	1
Hexachloroethane	ND		2.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		10/03/23 15:34	10/04/23 20:47	1
Isophorone	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Naphthalene	ND		2.0	0.30	ug/L		10/03/23 15:34	10/04/23 20:47	1
n-Decane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
n-Docosane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
n-Eicosane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
n-Hexadecane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Nitrobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1

Client Sample ID: RECEIVING_WATER-002
Date Collected: 09/27/23 09:15
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-2
Matrix: Surface Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
n-Octadecane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
n-Tetradecane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
o-Toluidine	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 20:47	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Pentachlorophenol	ND		5.0	0.80	ug/L		10/03/23 15:34	10/04/23 20:47	1
Phenanthrene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 20:47	1
Phenol	ND		1.0	0.50	ug/L		10/03/23 15:34	10/04/23 20:47	1
Pyrene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 20:47	1
Pyridine	ND		10	0.80	ug/L		10/03/23 15:34	10/04/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*77*		*10 - 150*	*10/03/23 15:34*	*10/04/23 20:47*	*1*
2-Fluorobiphenyl (Surr)	*72*		*32 - 115*	*10/03/23 15:34*	*10/04/23 20:47*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 83*	*10/03/23 15:34*	*10/04/23 20:47*	*1*
Nitrobenzene-d5 (Surr)	*70*		*41 - 121*	*10/03/23 15:34*	*10/04/23 20:47*	*1*
Phenol-d5 (Surr)	*41*		*10 - 63*	*10/03/23 15:34*	*10/04/23 20:47*	*1*
p-Terphenyl-d14 (Surr)	*115*		*28 - 134*	*10/03/23 15:34*	*10/04/23 20:47*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	**31**	**J**	50	23	ug/L			09/28/23 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*102*		*63 - 135*		*09/28/23 17:45*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/09/23 10:55	10/09/23 15:35	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/09/23 10:55	10/09/23 15:35	1
Methane (1C)	**4.2**	**J**	5.0	3.0	ug/L		10/09/23 10:55	10/09/23 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*50*		*43 - 133*	*10/09/23 10:55*	*10/09/23 15:35*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	ND	cn	0.10	0.045	mg/L		10/04/23 08:19	10/05/23 10:56	1
>C28-C35 (1C)	ND		0.10	0.045	mg/L		10/04/23 08:19	10/05/23 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*77*		*32 - 125*	*10/04/23 08:19*	*10/05/23 10:56*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1500**		1500	500	mg/L			10/11/23 04:03	1000
Chloride	**10000**	**F1**	7500	3000	mg/L			10/10/23 02:52	5000

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.36**	**J**	1.0	0.20	ug/L		10/02/23 20:56	10/03/23 15:44	1
Aluminum	**65**		30	12	ug/L		10/02/23 20:56	10/03/23 15:44	1

Client Sample ID: RECEIVING_WATER-002
Lab Sample ID: 410-144546-2

Date Collected: 09/27/23 09:15
Matrix: Surface Water
Date Received: 09/27/23 19:15

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		2.0	0.68	ug/L		10/02/23 20:56	10/03/23 15:44	1
Barium	23		2.0	0.75	ug/L		10/02/23 20:56	10/03/23 15:44	1
Beryllium	ND		0.50	0.12	ug/L		10/02/23 20:56	10/03/23 15:44	1
Cadmium	ND		0.50	0.15	ug/L		10/02/23 20:56	10/03/23 15:44	1
Calcium	280000		1200	500	ug/L		10/02/23 20:56	10/03/23 16:13	10
Chromium	ND		2.0	0.55	ug/L		10/02/23 20:56	10/03/23 15:44	1
Cobalt	0.27	J	0.50	0.16	ug/L		10/02/23 20:56	10/03/23 15:44	1
Copper	2.6		1.0	0.36	ug/L		10/02/23 20:56	10/03/23 15:44	1
Iron	230		50	20	ug/L		10/02/23 20:56	10/03/23 15:44	1
Lead	1.9		0.50	0.12	ug/L		10/02/23 20:56	10/03/23 15:44	1
Magnesium	830000	^2	500	160	ug/L		10/02/23 20:56	10/03/23 16:13	10
Manganese	120		2.0	0.95	ug/L		10/02/23 20:56	10/03/23 15:44	1
Nickel	1.4		1.0	0.40	ug/L		10/02/23 20:56	10/03/23 15:44	1
Potassium	250000		2000	650	ug/L		10/02/23 20:56	10/03/23 16:13	10
Selenium	ND		1.0	0.28	ug/L		10/02/23 20:56	10/03/23 15:44	1
Silver	ND		0.50	0.10	ug/L		10/02/23 20:56	10/03/23 15:44	1
Sodium	6700000	^2	20000	9000	ug/L		10/02/23 20:56	10/03/23 16:15	100
Thallium	ND		0.50	0.13	ug/L		10/02/23 20:56	10/03/23 15:44	1
Vanadium	2.1	J	4.0	0.79	ug/L		10/02/23 20:56	10/03/23 15:44	1
Zinc	12		10	4.0	ug/L		10/02/23 20:56	10/03/23 15:44	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/05/23 00:26	10/05/23 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	2.6	J	5.2	1.5	mg/L			09/29/23 20:36	1
Turbidity (EPA 180.1)	2.8		1.0	1.0	NTU			09/28/23 21:06	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	110		8.0	2.6	mg/L			09/28/23 22:24	1
Total Hardness (SM 2340C-2011)	ND		100	30	mg/L			09/29/23 10:01	10
Specific Conductance (SM 2510B-2011)	42000		500	170	umhos/cm			09/29/23 20:45	100
Total Dissolved Solids (SM 2540C - 2015)	6200		600	240	mg/L			09/29/23 06:50	1
Total Suspended Solids (SM 2540D-2015)	5.2		3.0	1.0	mg/L			09/29/23 16:17	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			09/28/23 19:34	1
Total Kjeldahl Nitrogen (EPA 351.2	0.79	J	1.0	0.50	mg/L		10/05/23 14:20	10/09/23 10:54	1
Nitrate as N (EPA 353.2)	0.42		0.10	0.040	mg/L			09/28/23 09:48	1
Total Phosphorus as PO4 (EPA 365.1)	0.59		0.31	0.25	mg/L		10/09/23 11:59	10/10/23 11:11	1
Chemical Oxygen Demand (EPA 410.4)	690		190	63	mg/L			09/29/23 03:17	2.5
Phenols, Total (EPA 420.4)	0.33		0.040	0.020	mg/L			09/30/23 13:43	2
pH (SM 4500 H+ B-2011)	7.5	HF	0.01	0.01	S.U.			09/28/23 22:24	1
Temperature (SM 4500 H+ B-2011)	21.9	HF	0.01	0.01	Degrees C			09/28/23 22:24	1
Biochemical Oxygen Demand (SM 5210 B-2016)	ND		2.0	2.0	mg/L			09/28/23 19:00	1
Total Organic Carbon (SW846 9060A)	1600		1000	500	ug/L			10/05/23 14:05	1

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

Client Sample ID: RECEIVING_WATER-002
Lab Sample ID: 410-144546-2
Date Collected: 09/27/23 09:15
Matrix: Surface Water
Date Received: 09/27/23 19:15

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	1600		1000	500	ug/L			10/05/23 14:05	1
TOC Result 2 (SW846 9060A)	1600		1000	500	ug/L			10/05/23 14:05	1
TOC Result 3 (SW846 9060A)	1700		1000	500	ug/L			10/05/23 14:05	1
TOC Result 4 (SW846 9060A)	1600		1000	500	ug/L			10/05/23 14:05	1
Langelier Index (SM 2330B)	0.20				LangSU			09/28/23 05:04	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: QAQC_TB

Date Collected: 06/07/23 00:00
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-3

Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/29/23 15:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/29/23 15:20	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/29/23 15:20	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/29/23 15:20	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/29/23 15:20	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/29/23 15:20	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/29/23 15:20	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/29/23 15:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
1,4-Dioxane	ND		100	82	ug/L			09/29/23 15:20	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/29/23 15:20	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/29/23 15:20	1
2-Chloroethyl vinyl ether	ND	cn	1.0	0.50	ug/L			09/29/23 15:20	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/29/23 15:20	1
2-Hexanone	ND		2.0	0.50	ug/L			09/29/23 15:20	1
2-Propanol	ND		20	8.0	ug/L			09/29/23 15:20	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/29/23 15:20	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/29/23 15:20	1
Acetonitrile	ND		50	14	ug/L			09/29/23 15:20	1
Benzene	ND		1.0	0.25	ug/L			09/29/23 15:20	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/29/23 15:20	1
Bromobenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/29/23 15:20	1
Bromoform	ND		1.0	0.30	ug/L			09/29/23 15:20	1
Bromomethane	ND		1.0	0.44	ug/L			09/29/23 15:20	1
Butyl acetate	ND		5.0	0.60	ug/L			09/29/23 15:20	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/29/23 15:20	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/29/23 15:20	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Chloroethane	ND		1.0	0.44	ug/L			09/29/23 15:20	1
Chloroform	ND		1.0	0.30	ug/L			09/29/23 15:20	1
Chloromethane	ND		1.0	0.64	ug/L			09/29/23 15:20	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Cyclohexane	ND		1.0	0.30	ug/L			09/29/23 15:20	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Dibromomethane	ND		1.0	0.20	ug/L			09/29/23 15:20	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: QAQC_TB

Date Collected: 06/07/23 00:00
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-3

Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/29/23 15:20	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/29/23 15:20	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/29/23 15:20	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/29/23 15:20	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/29/23 15:20	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Freon 113	ND		1.0	0.30	ug/L			09/29/23 15:20	1
Freon 123a	ND		1.0	0.44	ug/L			09/29/23 15:20	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Isobutyl alcohol	ND		50	12	ug/L			09/29/23 15:20	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/29/23 15:20	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/29/23 15:20	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/29/23 15:20	1
Methacrylonitrile	ND		10	2.0	ug/L			09/29/23 15:20	1
Methyl iodide	ND		1.0	0.30	ug/L			09/29/23 15:20	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/29/23 15:20	1
Naphthalene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
n-Heptane	ND		1.0	0.40	ug/L			09/29/23 15:20	1
n-Hexane	ND		1.0	0.46	ug/L			09/29/23 15:20	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/29/23 15:20	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
o-Xylene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Propionitrile	ND		20	8.5	ug/L			09/29/23 15:20	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Styrene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/29/23 15:20	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/29/23 15:20	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Tetrachloroethene	ND		1.0	0.30	ug/L			09/29/23 15:20	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/29/23 15:20	1
Toluene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/29/23 15:20	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/29/23 15:20	1
Trichloroethene	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/29/23 15:20	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/29/23 15:20	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/29/23 15:20	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/29/23 15:20	1
Acrolein	ND	cn	10	3.0	ug/L			09/29/23 15:20	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			09/29/23 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*09/29/23 15:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*09/29/23 15:20*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*09/29/23 15:20*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: QAQC_TB
Date Collected: 06/07/23 00:00
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-3
Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		60 - 140		09/29/23 15:20	1

Action Limit Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

Client Sample ID: ORS-INFLUENT
Lab Sample ID: 410-144546-1

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	2.2	J	mg/L	5	5.4	1664A	Total/NA

Client Sample ID: RECEIVING_WATER-002
Lab Sample ID: 410-144546-2

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	2.6	J	mg/L	5	5.2	1664A	Total/NA

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-144546-1	ORS-INFLUENT	102	99	99	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-144546-2	RECEIVING_WATER-002	102	98	101	99
410-144546-2 MS	RECEIVING_WATER-002	102	99	102	99
410-144546-2 MSD	RECEIVING_WATER-002	103	98	102	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-144546-3	QAQC_TB	102	98	101	98
LCS 410-425467/1003	Lab Control Sample	100	97	102	98
LCS 410-425467/1004	Lab Control Sample	102	98	102	98
MB 410-425467/5	Method Blank	101	98	101	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-144546-1	ORS-INFLUENT	103	98	99	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-144546-2	RECEIVING_WATER-002	105	106	93	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
LCS 410-428849/4	Lab Control Sample	101	99	97	99
MB 410-428849/6	Method Blank	103	102	99	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)
410-144546-1	ORS-INFLUENT	31	75	21	69	17	91

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)
410-144546-2	RECEIVING_WATER-002	77	72	47	70	41	115

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)
LCS 410-426836/2-A	Lab Control Sample	80	72	44	71	32	89
LCSD 410-426836/3-A	Lab Control Sample Dup	106	78	48	77	35	105
MB 410-426836/1-A	Method Blank	86	78	46	79	32	117

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
410-144546-1	ORS-INFLUENT	125
410-144546-1 MS	ORS-INFLUENT	134
410-144546-1 MSD	ORS-INFLUENT	133

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Surface Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
410-144546-2	RECEIVING_WATER-002	102

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F1
Lab Sample ID	Client Sample ID	(63-135)
LCS 410-424817/6	Lab Control Sample	94
LCSD 410-424817/7	Lab Control Sample Dup	94
MB 410-424817/5	Method Blank	102

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	Propene1 (43-133)
410-144546-1	ORS-INFLUENT	43
410-144546-1 - DL	ORS-INFLUENT	68

Surrogate Legend
Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	Propene1 (43-133)
410-144546-2	RECEIVING_WATER-002	50

Surrogate Legend
Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	Propene1 (43-133)
LCS 410-429006/2-A	Lab Control Sample	93
LCS 410-429458/2-A	Lab Control Sample	98
LCSD 410-429006/3-A	Lab Control Sample Dup	93
LCSD 410-429458/3-A	Lab Control Sample Dup	98
MB 410-429006/1-A	Method Blank	94
MB 410-429458/1-A	Method Blank	98

Surrogate Legend
Propene = Propene

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTP1 (32-125)
410-144546-1	ORS-INFLUENT	90

Surrogate Legend
OTP = o- terphenyl (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTP1 (32-125)
410-144546-2	RECEIVING_WATER-002	77

Surrogate Legend
OTP = o- terphenyl (Surr)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OTP1 (32-125)							
LCS 410-427122/2-A	Lab Control Sample	73							
MB 410-427122/1-A	Method Blank	85							

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-425467/5
Matrix: Water
Analysis Batch: 425467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/29/23 12:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/29/23 12:59	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/29/23 12:59	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/29/23 12:59	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/29/23 12:59	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/29/23 12:59	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/29/23 12:59	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/29/23 12:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
1,4-Dioxane	ND		100	82	ug/L			09/29/23 12:59	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/29/23 12:59	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/29/23 12:59	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			09/29/23 12:59	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/29/23 12:59	1
2-Hexanone	ND		2.0	0.50	ug/L			09/29/23 12:59	1
2-Propanol	ND		20	8.0	ug/L			09/29/23 12:59	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/29/23 12:59	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/29/23 12:59	1
Acetonitrile	ND		50	14	ug/L			09/29/23 12:59	1
Benzene	ND		1.0	0.25	ug/L			09/29/23 12:59	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/29/23 12:59	1
Bromobenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/29/23 12:59	1
Bromoform	ND		1.0	0.30	ug/L			09/29/23 12:59	1
Bromomethane	ND		1.0	0.44	ug/L			09/29/23 12:59	1
Butyl acetate	ND		5.0	0.60	ug/L			09/29/23 12:59	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/29/23 12:59	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/29/23 12:59	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Chloroethane	ND		1.0	0.44	ug/L			09/29/23 12:59	1
Chloroform	ND		1.0	0.30	ug/L			09/29/23 12:59	1
Chloromethane	ND		1.0	0.64	ug/L			09/29/23 12:59	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Cyclohexane	ND		1.0	0.30	ug/L			09/29/23 12:59	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/29/23 12:59	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-425467/5
Matrix: Water
Analysis Batch: 425467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/29/23 12:59	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/29/23 12:59	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/29/23 12:59	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/29/23 12:59	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/29/23 12:59	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Freon 113	ND		1.0	0.30	ug/L			09/29/23 12:59	1
Freon 123a	ND		1.0	0.44	ug/L			09/29/23 12:59	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Isobutyl alcohol	ND		50	12	ug/L			09/29/23 12:59	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/29/23 12:59	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/29/23 12:59	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/29/23 12:59	1
Methacrylonitrile	ND		10	2.0	ug/L			09/29/23 12:59	1
Methyl iodide	ND		1.0	0.30	ug/L			09/29/23 12:59	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/29/23 12:59	1
Naphthalene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
n-Heptane	ND		1.0	0.40	ug/L			09/29/23 12:59	1
n-Hexane	ND		1.0	0.46	ug/L			09/29/23 12:59	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/29/23 12:59	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
o-Xylene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Propionitrile	ND		20	8.5	ug/L			09/29/23 12:59	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Styrene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/29/23 12:59	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/29/23 12:59	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Tetrachloroethene	ND		1.0	0.30	ug/L			09/29/23 12:59	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/29/23 12:59	1
Toluene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/29/23 12:59	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/29/23 12:59	1
Trichloroethene	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/29/23 12:59	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/29/23 12:59	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/29/23 12:59	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/29/23 12:59	1
Acrolein	ND		10	3.0	ug/L			09/29/23 12:59	1
Acrylonitrile	ND		3.0	1.1	ug/L			09/29/23 12:59	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-425467/5
Matrix: Water
Analysis Batch: 425467

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		60 - 140		09/29/23 12:59	1
4-Bromofluorobenzene (Surr)	98		60 - 140		09/29/23 12:59	1
Dibromofluoromethane (Surr)	101		60 - 140		09/29/23 12:59	1
Toluene-d8 (Surr)	98		60 - 140		09/29/23 12:59	1

Lab Sample ID: LCS 410-425467/1003
Matrix: Water
Analysis Batch: 425467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	60 - 140
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	20.0	18.6		ug/L		93	60 - 140
1,1,2-Trichloroethane	20.0	18.6		ug/L		93	70 - 130
1,1-Dichloroethane	20.0	18.4		ug/L		92	70 - 130
1,1-Dichloroethene	20.0	19.2		ug/L		96	50 - 150
1,1-Dichloropropene	20.0	19.3		ug/L		96	60 - 140
1,2,3-Trichlorobenzene	20.0	18.3		ug/L		91	60 - 140
1,2,3-Trichloropropane	20.0	18.4		ug/L		92	60 - 140
1,2,4-Trichlorobenzene	20.0	18.2		ug/L		91	60 - 140
1,2,4-Trimethylbenzene	20.0	18.0		ug/L		90	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	18.0		ug/L		90	60 - 140
1,2-Dibromoethane	20.0	19.4		ug/L		97	60 - 140
1,2-Dichlorobenzene	20.0	18.0		ug/L		90	65 - 135
1,2-Dichloroethane	20.0	18.3		ug/L		92	70 - 130
1,2-Dichloroethene (total)	40.0	37.6		ug/L		94	60 - 140
1,2-Dichloropropane	20.0	19.2		ug/L		96	35 - 165
1,3,5-Trimethylbenzene	20.0	18.3		ug/L		92	60 - 140
1,3-Dichlorobenzene	20.0	18.0		ug/L		90	70 - 130
1,3-Dichloropropane	20.0	18.7		ug/L		93	60 - 140
1,4-Dichlorobenzene	20.0	19.1		ug/L		96	65 - 135
1,4-Dioxane	500	528		ug/L		106	60 - 140
2,2-Dichloropropane	20.0	18.4		ug/L		92	60 - 140
2-Chloro-1,3-butadiene	20.0	18.3		ug/L		92	60 - 140
2-Chlorotoluene	20.0	18.7		ug/L		94	60 - 140
2-Hexanone	250	230		ug/L		92	60 - 140
2-Propanol	150	131		ug/L		87	60 - 140
4-Chlorotoluene	20.0	18.9		ug/L		94	60 - 140
4-Methyl-2-pentanone	250	232		ug/L		93	60 - 140
Benzene	20.0	19.4		ug/L		97	65 - 135
Benzyl chloride	20.0	17.1		ug/L		86	60 - 140
Bromobenzene	20.0	18.9		ug/L		95	60 - 140
Bromodichloromethane	20.0	18.8		ug/L		94	65 - 135
Bromoform	20.0	16.6		ug/L		83	70 - 130
Bromomethane	20.0	16.5		ug/L		83	15 - 185
Carbon disulfide	20.0	16.6		ug/L		83	60 - 140
Carbon tetrachloride	20.0	18.9		ug/L		94	70 - 130
Chlorobenzene	20.0	18.4		ug/L		92	65 - 135

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-425467/1003
Matrix: Water
Analysis Batch: 425467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	20.0	17.5		ug/L		88	40 - 160
Chloroform	20.0	18.9		ug/L		95	70 - 135
Chloromethane	20.0	15.5		ug/L		78	10 - 200
cis-1,2-Dichloroethene	20.0	19.1		ug/L		95	60 - 140
cis-1,3-Dichloropropene	20.0	17.7		ug/L		88	25 - 175
Cyclohexane	20.0	17.9		ug/L		89	60 - 140
Dibromochloromethane	20.0	18.0		ug/L		90	70 - 135
Dibromomethane	20.0	19.9		ug/L		99	60 - 140
Dichlorodifluoromethane	20.0	14.2		ug/L		71	60 - 140
Dichlorofluoromethane	20.0	15.8		ug/L		79	60 - 140
di-Isopropyl ether	20.0	17.7		ug/L		89	60 - 140
Ethyl methacrylate	20.0	17.1		ug/L		85	60 - 140
Ethyl t-butyl ether	20.0	19.0		ug/L		95	60 - 140
Ethylbenzene	20.0	18.6		ug/L		93	60 - 140
Freon 113	20.0	20.2		ug/L		101	60 - 140
Freon 123a	20.0	16.9		ug/L		84	60 - 140
Hexachlorobutadiene	20.0	17.9		ug/L		89	60 - 140
Isobutyl alcohol	500	455		ug/L		91	60 - 140
Isopropylbenzene	20.0	19.0		ug/L		95	60 - 140
m&p-Xylene	40.0	37.7		ug/L		94	60 - 140
Methacrylonitrile	150	144		ug/L		96	60 - 140
Methyl iodide	20.0	18.5		ug/L		92	60 - 140
Methyl methacrylate	20.0	18.6		ug/L		93	60 - 140
Methylene Chloride	20.0	17.7		ug/L		89	60 - 140
Naphthalene	20.0	18.5		ug/L		93	60 - 140
n-Butylbenzene	20.0	17.7		ug/L		88	60 - 140
n-Heptane	20.0	17.3		ug/L		86	60 - 140
n-Hexane	20.0	17.3		ug/L		86	60 - 140
N-Propylbenzene	20.0	18.5		ug/L		92	60 - 140
o-Xylene	20.0	18.7		ug/L		93	60 - 140
p-Isopropyltoluene	20.0	18.1		ug/L		91	60 - 140
Propionitrile	150	148		ug/L		99	60 - 140
sec-Butylbenzene	20.0	18.3		ug/L		91	60 - 140
Styrene	20.0	19.0		ug/L		95	60 - 140
t-Amyl methyl ether	20.0	18.7		ug/L		93	60 - 140
t-Butyl alcohol	200	196		ug/L		98	60 - 140
tert-Butylbenzene	20.0	17.8		ug/L		89	60 - 140
Tetrachloroethene	20.0	19.1		ug/L		95	70 - 130
Tetrahydrofuran	100	88.0		ug/L		88	60 - 140
Toluene	20.0	18.5		ug/L		93	70 - 130
trans-1,2-Dichloroethene	20.0	18.5		ug/L		93	70 - 130
trans-1,3-Dichloropropene	20.0	17.7		ug/L		89	50 - 150
trans-1,4-Dichloro-2-butene	100	76.1		ug/L		76	60 - 140
Trichloroethene	20.0	19.0		ug/L		95	65 - 135
Trichlorofluoromethane	20.0	17.0		ug/L		85	50 - 150
Vinyl chloride	20.0	15.7		ug/L		78	10 - 195
Xylenes, Total	60.0	56.4		ug/L		94	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-425467/1003
Matrix: Water
Analysis Batch: 425467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*98*		*60 - 140*

Lab Sample ID: LCS 410-425467/1004
Matrix: Water
Analysis Batch: 425467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	150	141		ug/L		94	60 - 140
Butyl acetate	20.0	16.9		ug/L		85	60 - 140
Ethyl acetate	20.0	17.2		ug/L		86	60 - 140
Isopropyl acetate	20.0	17.7		ug/L		89	60 - 140
n-Propyl acetate	20.0	17.6		ug/L		88	60 - 140
Vinyl acetate	100	91.0		ug/L		91	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*98*		*60 - 140*

Lab Sample ID: 410-144546-2 MS
Matrix: Surface Water
Analysis Batch: 425467

Client Sample ID: RECEIVING_WATER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		20.0	20.0		ug/L		100	60 - 140
1,1,1-Trichloroethane	ND		20.0	20.9		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	ND		20.0	19.3		ug/L		96	60 - 140
1,1,2-Trichloroethane	ND		20.0	19.2		ug/L		96	70 - 130
1,1-Dichloroethane	ND		20.0	19.3		ug/L		97	70 - 130
1,1-Dichloroethene	ND		20.0	21.3		ug/L		107	50 - 150
1,1-Dichloropropene	ND		20.0	21.3		ug/L		106	60 - 140
1,2,3-Trichlorobenzene	ND		20.0	18.7		ug/L		93	60 - 140
1,2,3-Trichloropropane	ND		20.0	19.5		ug/L		97	60 - 140
1,2,4-Trichlorobenzene	ND		20.0	18.5		ug/L		92	60 - 140
1,2,4-Trimethylbenzene	ND		20.0	18.9		ug/L		95	60 - 140
1,2-Dibromo-3-Chloropropane	ND		20.0	18.5		ug/L		92	60 - 140
1,2-Dibromoethane	ND		20.0	19.9		ug/L		100	60 - 140
1,2-Dichlorobenzene	ND		20.0	18.3		ug/L		91	65 - 135
1,2-Dichloroethane	ND		20.0	18.9		ug/L		94	70 - 130
1,2-Dichloroethene (total)	ND		40.0	40.5		ug/L		101	60 - 140
1,2-Dichloropropane	ND		20.0	20.2		ug/L		101	35 - 165
1,3,5-Trimethylbenzene	ND		20.0	19.3		ug/L		97	60 - 140
1,3-Dichlorobenzene	ND		20.0	18.9		ug/L		95	70 - 130
1,3-Dichloropropane	ND		20.0	19.2		ug/L		96	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-144546-2 MS
Matrix: Surface Water
Analysis Batch: 425467

Client Sample ID: RECEIVING_WATER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	ND		20.0	19.7		ug/L		99	65 - 135
1,4-Dioxane	ND		500	486		ug/L		97	60 - 140
2,2-Dichloropropane	ND		20.0	19.6		ug/L		98	60 - 140
2-Chloro-1,3-butadiene	ND		20.0	19.7		ug/L		99	60 - 140
2-Chlorotoluene	ND		20.0	19.4		ug/L		97	60 - 140
2-Hexanone	ND		250	268		ug/L		107	60 - 140
2-Propanol	ND		150	143		ug/L		95	60 - 140
4-Chlorotoluene	ND		20.0	19.7		ug/L		98	60 - 140
4-Methyl-2-pentanone	ND		250	264		ug/L		106	60 - 140
Benzene	ND		20.0	21.0		ug/L		105	65 - 135
Benzyl chloride	ND		20.0	17.0		ug/L		85	60 - 140
Bromobenzene	ND		20.0	19.8		ug/L		99	60 - 140
Bromodichloromethane	ND		20.0	19.0		ug/L		95	65 - 135
Bromoform	ND		20.0	16.1		ug/L		80	70 - 130
Bromomethane	ND		20.0	17.8		ug/L		89	15 - 185
Carbon disulfide	ND		20.0	16.6		ug/L		83	60 - 140
Carbon tetrachloride	ND		20.0	20.7		ug/L		104	70 - 130
Chlorobenzene	ND		20.0	19.6		ug/L		98	65 - 135
Chloroethane	ND		20.0	19.2		ug/L		96	40 - 160
Chloroform	ND		20.0	20.1		ug/L		100	70 - 135
Chloromethane	ND		20.0	17.0		ug/L		85	10 - 200
cis-1,2-Dichloroethene	ND		20.0	20.5		ug/L		102	60 - 140
cis-1,3-Dichloropropene	ND		20.0	18.0		ug/L		90	25 - 175
Cyclohexane	ND		20.0	20.1		ug/L		100	60 - 140
Dibromochloromethane	ND		20.0	17.9		ug/L		89	70 - 135
Dibromomethane	ND		20.0	20.5		ug/L		102	60 - 140
Dichlorodifluoromethane	ND		20.0	16.9		ug/L		84	60 - 140
Dichlorofluoromethane	ND		20.0	17.3		ug/L		86	60 - 140
di-Isopropyl ether	ND		20.0	18.3		ug/L		91	60 - 140
Ethyl methacrylate	ND		20.0	18.0		ug/L		90	60 - 140
Ethyl t-butyl ether	ND		20.0	19.2		ug/L		96	60 - 140
Ethylbenzene	ND		20.0	19.7		ug/L		99	60 - 140
Freon 113	ND		20.0	22.5		ug/L		113	60 - 140
Freon 123a	ND		20.0	18.9		ug/L		95	60 - 140
Hexachlorobutadiene	ND		20.0	18.8		ug/L		94	60 - 140
Isobutyl alcohol	ND		500	475		ug/L		95	60 - 140
Isopropylbenzene	ND		20.0	20.2		ug/L		101	60 - 140
m&p-Xylene	ND		40.0	40.2		ug/L		100	60 - 140
Methacrylonitrile	ND		150	149		ug/L		99	60 - 140
Methyl iodide	ND		20.0	19.7		ug/L		99	60 - 140
Methyl methacrylate	ND		20.0	19.7		ug/L		98	60 - 140
Methylene Chloride	ND		20.0	18.6		ug/L		93	60 - 140
Naphthalene	ND		20.0	19.6		ug/L		98	60 - 140
n-Butylbenzene	ND		20.0	18.4		ug/L		92	60 - 140
n-Heptane	ND		20.0	18.5		ug/L		93	60 - 140
n-Hexane	ND		20.0	18.7		ug/L		94	60 - 140
N-Propylbenzene	ND		20.0	19.7		ug/L		98	60 - 140
o-Xylene	ND		20.0	19.8		ug/L		99	60 - 140
p-Isopropyltoluene	ND		20.0	19.2		ug/L		96	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-144546-2 MS
Matrix: Surface Water
Analysis Batch: 425467

Client Sample ID: RECEIVING_WATER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Propionitrile	ND		150	149		ug/L		100	60 - 140
sec-Butylbenzene	ND		20.0	19.3		ug/L		96	60 - 140
Styrene	ND		20.0	19.8		ug/L		99	60 - 140
t-Amyl methyl ether	ND		20.0	19.2		ug/L		96	60 - 140
t-Butyl alcohol	ND		200	207		ug/L		103	60 - 140
tert-Butylbenzene	ND		20.0	19.1		ug/L		96	60 - 140
Tetrachloroethene	ND		20.0	20.8		ug/L		104	70 - 130
Tetrahydrofuran	ND		100	92.2		ug/L		92	60 - 140
Toluene	ND		20.0	19.8		ug/L		99	70 - 130
trans-1,2-Dichloroethene	ND		20.0	20.0		ug/L		100	70 - 130
trans-1,3-Dichloropropene	ND		20.0	17.8		ug/L		89	50 - 150
trans-1,4-Dichloro-2-butene	ND		100	81.1		ug/L		81	60 - 140
Trichloroethene	ND		20.0	20.6		ug/L		103	65 - 135
Trichlorofluoromethane	ND		20.0	19.6		ug/L		98	50 - 150
Vinyl chloride	ND		20.0	17.5		ug/L		88	10 - 195
Xylenes, Total	ND		60.0	60.0		ug/L		100	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: 410-144546-2 MSD
Matrix: Surface Water
Analysis Batch: 425467

Client Sample ID: RECEIVING_WATER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	20.2		ug/L		101	60 - 140	1	30
1,1,1-Trichloroethane	ND		20.0	21.2		ug/L		106	70 - 130	1	30
1,1,2,2-Tetrachloroethane	ND		20.0	19.3		ug/L		97	60 - 140	0	30
1,1,2-Trichloroethane	ND		20.0	19.5		ug/L		97	70 - 130	2	30
1,1-Dichloroethane	ND		20.0	19.8		ug/L		99	70 - 130	2	30
1,1-Dichloroethene	ND		20.0	21.4		ug/L		107	50 - 150	0	30
1,1-Dichloropropene	ND		20.0	21.5		ug/L		107	60 - 140	1	30
1,2,3-Trichlorobenzene	ND		20.0	19.2		ug/L		96	60 - 140	3	30
1,2,3-Trichloropropane	ND		20.0	20.1		ug/L		100	60 - 140	3	30
1,2,4-Trichlorobenzene	ND		20.0	18.9		ug/L		95	60 - 140	2	30
1,2,4-Trimethylbenzene	ND		20.0	19.2		ug/L		96	60 - 140	2	30
1,2-Dibromo-3-Chloropropane	ND		20.0	19.1		ug/L		95	60 - 140	3	30
1,2-Dibromoethane	ND		20.0	20.0		ug/L		100	60 - 140	0	30
1,2-Dichlorobenzene	ND		20.0	18.8		ug/L		94	65 - 135	3	30
1,2-Dichloroethane	ND		20.0	19.1		ug/L		96	70 - 130	1	30
1,2-Dichloroethene (total)	ND		40.0	40.9		ug/L		102	60 - 140	1	30
1,2-Dichloropropane	ND		20.0	20.4		ug/L		102	35 - 165	1	30
1,3,5-Trimethylbenzene	ND		20.0	19.4		ug/L		97	60 - 140	1	30
1,3-Dichlorobenzene	ND		20.0	19.1		ug/L		95	70 - 130	1	30
1,3-Dichloropropane	ND		20.0	19.6		ug/L		98	60 - 140	2	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-144546-2 MSD
Client Sample ID: RECEIVING_WATER-002
Matrix: Surface Water
Prep Type: Total/NA
Analysis Batch: 425467

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		20.0	20.1		ug/L		100	65 - 135	2	30
1,4-Dioxane	ND		500	612		ug/L		122	60 - 140	23	30
2,2-Dichloropropane	ND		20.0	19.8		ug/L		99	60 - 140	1	30
2-Chloro-1,3-butadiene	ND		20.0	19.9		ug/L		100	60 - 140	1	30
2-Chlorotoluene	ND		20.0	20.1		ug/L		100	60 - 140	3	30
2-Hexanone	ND		250	274		ug/L		109	60 - 140	2	30
2-Propanol	ND		150	175		ug/L		116	60 - 140	20	30
4-Chlorotoluene	ND		20.0	19.9		ug/L		100	60 - 140	1	30
4-Methyl-2-pentanone	ND		250	271		ug/L		108	60 - 140	2	30
Benzene	ND		20.0	21.0		ug/L		105	65 - 135	0	30
Benzyl chloride	ND		20.0	17.5		ug/L		88	60 - 140	3	30
Bromobenzene	ND		20.0	20.1		ug/L		101	60 - 140	2	30
Bromodichloromethane	ND		20.0	19.5		ug/L		98	65 - 135	3	30
Bromoform	ND		20.0	16.3		ug/L		82	70 - 130	1	30
Bromomethane	ND		20.0	17.9		ug/L		89	15 - 185	0	30
Carbon disulfide	ND		20.0	17.3		ug/L		87	60 - 140	5	30
Carbon tetrachloride	ND		20.0	21.0		ug/L		105	70 - 130	1	30
Chlorobenzene	ND		20.0	19.6		ug/L		98	65 - 135	0	30
Chloroethane	ND		20.0	19.2		ug/L		96	40 - 160	0	30
Chloroform	ND		20.0	20.4		ug/L		102	70 - 135	1	30
Chloromethane	ND		20.0	16.7		ug/L		83	10 - 200	2	30
cis-1,2-Dichloroethene	ND		20.0	20.9		ug/L		104	60 - 140	2	30
cis-1,3-Dichloropropene	ND		20.0	18.2		ug/L		91	25 - 175	1	30
Cyclohexane	ND		20.0	20.4		ug/L		102	60 - 140	2	30
Dibromochloromethane	ND		20.0	18.1		ug/L		90	70 - 135	1	30
Dibromomethane	ND		20.0	20.9		ug/L		105	60 - 140	2	30
Dichlorodifluoromethane	ND		20.0	16.6		ug/L		83	60 - 140	2	30
Dichlorofluoromethane	ND		20.0	17.1		ug/L		86	60 - 140	1	30
di-Isopropyl ether	ND		20.0	18.3		ug/L		91	60 - 140	0	30
Ethyl methacrylate	ND		20.0	18.2		ug/L		91	60 - 140	1	30
Ethyl t-butyl ether	ND		20.0	19.5		ug/L		98	60 - 140	2	30
Ethylbenzene	ND		20.0	20.0		ug/L		100	60 - 140	1	30
Freon 113	ND		20.0	22.8		ug/L		114	60 - 140	1	30
Freon 123a	ND		20.0	18.8		ug/L		94	60 - 140	1	30
Hexachlorobutadiene	ND		20.0	19.5		ug/L		98	60 - 140	4	30
Isobutyl alcohol	ND		500	580		ug/L		116	60 - 140	20	30
Isopropylbenzene	ND		20.0	20.4		ug/L		102	60 - 140	1	30
m&p-Xylene	ND		40.0	40.3		ug/L		101	60 - 140	0	30
Methacrylonitrile	ND		150	153		ug/L		102	60 - 140	3	30
Methyl iodide	ND		20.0	19.9		ug/L		99	60 - 140	1	30
Methyl methacrylate	ND		20.0	19.9		ug/L		99	60 - 140	1	30
Methylene Chloride	ND		20.0	18.6		ug/L		93	60 - 140	0	30
Naphthalene	ND		20.0	20.0		ug/L		100	60 - 140	2	30
n-Butylbenzene	ND		20.0	18.7		ug/L		93	60 - 140	1	30
n-Heptane	ND		20.0	18.4		ug/L		92	60 - 140	1	30
n-Hexane	ND		20.0	19.1		ug/L		95	60 - 140	2	30
N-Propylbenzene	ND		20.0	19.9		ug/L		100	60 - 140	1	30
o-Xylene	ND		20.0	19.6		ug/L		98	60 - 140	1	30
p-Isopropyltoluene	ND		20.0	19.5		ug/L		97	60 - 140	1	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-144546-2 MSD
Matrix: Surface Water
Analysis Batch: 425467

Client Sample ID: RECEIVING_WATER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Propionitrile	ND		150	157		ug/L		105	60 - 140	5	30
sec-Butylbenzene	ND		20.0	19.6		ug/L		98	60 - 140	2	30
Styrene	ND		20.0	20.1		ug/L		100	60 - 140	1	30
t-Amyl methyl ether	ND		20.0	19.5		ug/L		98	60 - 140	2	30
t-Butyl alcohol	ND		200	216		ug/L		108	60 - 140	4	30
tert-Butylbenzene	ND		20.0	19.5		ug/L		97	60 - 140	2	30
Tetrachloroethene	ND		20.0	20.8		ug/L		104	70 - 130	0	30
Tetrahydrofuran	ND		100	95.3		ug/L		95	60 - 140	3	30
Toluene	ND		20.0	20.1		ug/L		101	70 - 130	1	30
trans-1,2-Dichloroethene	ND		20.0	20.0		ug/L		100	70 - 130	0	30
trans-1,3-Dichloropropene	ND		20.0	18.2		ug/L		91	50 - 150	2	30
trans-1,4-Dichloro-2-butene	ND		100	80.6		ug/L		81	60 - 140	1	30
Trichloroethene	ND		20.0	20.9		ug/L		104	65 - 135	1	30
Trichlorofluoromethane	ND		20.0	19.8		ug/L		99	50 - 150	1	30
Vinyl chloride	ND		20.0	17.6		ug/L		88	10 - 195	0	30
Xylenes, Total	ND		60.0	59.9		ug/L		100	60 - 140	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*98*		*60 - 140*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-428849/6
Matrix: Water
Analysis Batch: 428849

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/09/23 11:42	1
Acetone	ND		20	0.70	ug/L			10/09/23 11:42	1
2-Butanone	ND		10	0.50	ug/L			10/09/23 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*10/09/23 11:42*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*10/09/23 11:42*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/09/23 11:42*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/09/23 11:42*	*1*

Lab Sample ID: LCS 410-428849/4
Matrix: Water
Analysis Batch: 428849

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tertiary butyl ether	20.0	16.4		ug/L		82	69 - 122
Acetone	250	259		ug/L		104	54 - 157
2-Butanone	250	218		ug/L		87	59 - 135

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-428849/4
Matrix: Water
Analysis Batch: 428849

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-426836/1-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 426836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
1,4-Dioxane	ND		5.0	2.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		10/03/23 15:34	10/04/23 15:39	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Chlorophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Methylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Nitroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
2-Nitrophenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		10/03/23 15:34	10/04/23 15:39	1
3-Nitroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Chloroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Methylphenol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Nitroaniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
4-Nitrophenol	ND		5.0	0.90	ug/L		10/03/23 15:34	10/04/23 15:39	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-426836/1-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 426836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
Acenaphthylene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Acetophenone	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Aniline	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Anthracene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
a-Terpineol	ND		5.0	0.60	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzidine	ND		60	6.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzoic acid	ND		30	4.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Benzyl alcohol	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Carbazole	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Chrysene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		10/03/23 15:34	10/04/23 15:39	1
Dibenzofuran	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Diethylphthalate	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Dimethylphthalate	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Diphenyl ether	ND		5.0	0.75	ug/L		10/03/23 15:34	10/04/23 15:39	1
Fluoranthene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Fluorene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Hexachloroethane	ND		2.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		10/03/23 15:34	10/04/23 15:39	1
Isophorone	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Naphthalene	ND		2.0	0.30	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Decane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Docosane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Eicosane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Hexadecane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Nitrobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Octadecane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
n-Tetradecane	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-426836/1-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 426836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Toluidine	ND		5.0	1.0	ug/L		10/03/23 15:34	10/04/23 15:39	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Pentachlorophenol	ND		5.0	0.80	ug/L		10/03/23 15:34	10/04/23 15:39	1
Phenanthrene	ND		5.0	0.20	ug/L		10/03/23 15:34	10/04/23 15:39	1
Phenol	ND		1.0	0.50	ug/L		10/03/23 15:34	10/04/23 15:39	1
Pyrene	ND		5.0	0.25	ug/L		10/03/23 15:34	10/04/23 15:39	1
Pyridine	ND		10	0.80	ug/L		10/03/23 15:34	10/04/23 15:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*86*		*10 - 150*	*10/03/23 15:34*	*10/04/23 15:39*	*1*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*	*10/03/23 15:34*	*10/04/23 15:39*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 83*	*10/03/23 15:34*	*10/04/23 15:39*	*1*
Nitrobenzene-d5 (Surr)	*79*		*41 - 121*	*10/03/23 15:34*	*10/04/23 15:39*	*1*
Phenol-d5 (Surr)	*32*		*10 - 63*	*10/03/23 15:34*	*10/04/23 15:39*	*1*
p-Terphenyl-d14 (Surr)	*117*		*28 - 134*	*10/03/23 15:34*	*10/04/23 15:39*	*1*

Lab Sample ID: LCS 410-426836/2-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 426836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	50.0	44.7		ug/L		89	60 - 119
1,2,4,5-Tetrachlorobenzene	50.0	46.5		ug/L		93	43 - 119
1,2,4-Trichlorobenzene	50.0	46.6		ug/L		93	44 - 142
1,2-Dichlorobenzene	50.0	41.7		ug/L		83	39 - 113
1,2-Diphenylhydrazine	50.0	43.4		ug/L		87	57 - 141
1,3-Dichlorobenzene	50.0	39.5		ug/L		79	37 - 107
1,4-Dichlorobenzene	50.0	39.2		ug/L		78	37 - 110
1,4-Dioxane	50.0	22.2		ug/L		44	25 - 64
1-Methylnaphthalene	50.0	45.8		ug/L		92	61 - 114
1-Methylphenanthrene	50.0	50.6		ug/L		101	75 - 118
2,2'-oxybis[1-chloropropane]	50.0	44.4		ug/L		89	48 - 110
2,3,4,6-Tetrachlorophenol	50.0	48.7		ug/L		97	43 - 137
2,3-Dichloroaniline	50.0	43.6		ug/L		87	57 - 124
2,4,5-Trichlorophenol	50.0	50.2		ug/L		100	69 - 133
2,4,6-Trichlorophenol	50.0	50.1		ug/L		100	37 - 144
2,4-Dichlorophenol	50.0	50.9		ug/L		102	39 - 135
2,4-Dimethylphenol	50.0	39.8		ug/L		80	32 - 120
2,4-Dinitrophenol	100	102		ug/L		102	10 - 191
2,4-Dinitrotoluene	50.0	53.9		ug/L		108	39 - 139
2,6-Dichlorophenol	50.0	48.3		ug/L		97	77 - 120
2,6-Dinitrotoluene	50.0	51.4		ug/L		103	50 - 158
2-Chloronaphthalene	50.0	41.9		ug/L		84	60 - 120
2-Chlorophenol	50.0	42.1		ug/L		84	23 - 134
2-Methylnaphthalene	50.0	47.9		ug/L		96	50 - 114
2-Methylphenol	50.0	42.0		ug/L		84	52 - 113
2-Nitroaniline	50.0	46.2		ug/L		92	60 - 125
2-Nitrophenol	50.0	46.9		ug/L		94	29 - 182

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-426836/2-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 426836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3,3'-Dichlorobenzidine	100	79.3		ug/L		79	10 - 200
3-Nitroaniline	50.0	43.9		ug/L		88	36 - 147
4,6-Dinitro-2-methylphenol	100	106		ug/L		106	10 - 181
4-Bromophenyl-phenylether	50.0	53.4		ug/L		107	53 - 127
4-Chloro-3-methylphenol	50.0	45.3		ug/L		91	22 - 147
4-Chloroaniline	50.0	37.7		ug/L		75	33 - 109
4-Chlorophenyl-phenylether	50.0	50.7		ug/L		101	25 - 158
4-Methylphenol	50.0	34.9		ug/L		70	47 - 96
4-Nitroaniline	50.0	40.2		ug/L		80	36 - 150
4-Nitrophenol	100	46.5		ug/L		47	10 - 132
Acenaphthene	50.0	46.0		ug/L		92	47 - 145
Acenaphthylene	50.0	44.8		ug/L		90	33 - 145
Acetophenone	50.0	46.2		ug/L		92	55 - 122
Aniline	50.0	29.7		ug/L		59	21 - 106
Anthracene	50.0	49.4		ug/L		99	27 - 133
a-Terpineol	50.0	43.1		ug/L		86	56 - 132
Benzidine	100	16.4	J	ug/L		16	10 - 72
Benzo[a]anthracene	50.0	47.8		ug/L		96	33 - 143
Benzo[a]pyrene	50.0	50.1		ug/L		100	17 - 163
Benzo[b]fluoranthene	50.0	44.4		ug/L		89	24 - 159
Benzo[g,h,i]perylene	50.0	51.7		ug/L		103	10 - 200
Benzo[k]fluoranthene	50.0	46.3		ug/L		93	11 - 162
Benzoic acid	50.0	23.9	J	ug/L		48	10 - 96
Benzyl alcohol	50.0	37.6		ug/L		75	53 - 137
Bis(2-chloroethoxy)methane	50.0	45.2		ug/L		90	33 - 184
Bis(2-chloroethyl)ether	50.0	43.0		ug/L		86	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	46.5		ug/L		93	10 - 158
Butylbenzylphthalate	50.0	41.9		ug/L		84	10 - 152
Carbazole	50.0	46.7		ug/L		93	62 - 127
Chrysene	50.0	49.6		ug/L		99	17 - 168
Dibenz(a,h)anthracene	50.0	52.4		ug/L		105	10 - 200
Dibenzofuran	50.0	48.1		ug/L		96	60 - 126
Diethylphthalate	50.0	44.9		ug/L		90	10 - 120
Dimethylphthalate	50.0	43.5		ug/L		87	10 - 120
Di-n-butyl phthalate	50.0	46.6		ug/L		93	10 - 120
Di-n-octyl phthalate	50.0	42.8		ug/L		86	10 - 146
Diphenyl ether	50.0	43.5		ug/L		87	63 - 121
Fluoranthene	50.0	49.6		ug/L		99	26 - 137
Fluorene	50.0	47.0		ug/L		94	59 - 121
Hexachlorobenzene	50.0	57.9		ug/L		116	10 - 152
Hexachlorobutadiene	50.0	42.8		ug/L		86	24 - 120
Hexachlorocyclopentadiene	50.0	16.5		ug/L		33	10 - 87
Hexachloroethane	50.0	36.1		ug/L		72	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	53.4		ug/L		107	10 - 171
Isophorone	50.0	44.2		ug/L		88	21 - 196
Naphthalene	50.0	44.2		ug/L		88	21 - 133
n-Decane	50.0	32.4		ug/L		65	15 - 104
n-Docosane	50.0	44.9		ug/L		90	41 - 167
n-Eicosane	50.0	43.4		ug/L		87	41 - 162

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-426836/2-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 426836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
n-Hexadecane	50.0	39.4		ug/L		79	39 - 134
Nitrobenzene	50.0	43.5		ug/L		87	35 - 180
N-Nitrosodimethylamine	50.0	28.1		ug/L		56	33 - 83
N-Nitrosodi-n-propylamine	50.0	41.5		ug/L		83	10 - 200
N-Nitrosodiphenylamine	42.5	43.2		ug/L		102	63 - 127
n-Octadecane	50.0	42.7		ug/L		85	51 - 134
n-Tetradecane	50.0	33.6		ug/L		67	19 - 133
Pentachlorophenol	100	116		ug/L		116	14 - 176
Phenanthrene	50.0	49.0		ug/L		98	54 - 120
Phenol	50.0	23.2		ug/L		46	10 - 120
Pyrene	50.0	49.5		ug/L		99	52 - 120
Pyridine	100	44.5		ug/L		45	27 - 75

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*80*		*10 - 150*
2-Fluorobiphenyl (Surr)	*72*		*32 - 115*
2-Fluorophenol (Surr)	*44*		*10 - 83*
Nitrobenzene-d5 (Surr)	*71*		*41 - 121*
Phenol-d5 (Surr)	*32*		*10 - 63*
p-Terphenyl-d14 (Surr)	*89*		*28 - 134*

Lab Sample ID: LCSD 410-426836/3-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 426836

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	50.0	50.5		ug/L		101	60 - 119	12	30
1,2,4,5-Tetrachlorobenzene	50.0	49.1		ug/L		98	43 - 119	5	30
1,2,4-Trichlorobenzene	50.0	49.2		ug/L		98	44 - 142	5	30
1,2-Dichlorobenzene	50.0	44.4		ug/L		89	39 - 113	6	30
1,2-Diphenylhydrazine	50.0	45.5		ug/L		91	57 - 141	5	30
1,3-Dichlorobenzene	50.0	42.3		ug/L		85	37 - 107	7	30
1,4-Dichlorobenzene	50.0	43.8		ug/L		88	37 - 110	11	30
1,4-Dioxane	50.0	21.8		ug/L		44	25 - 64	2	30
1-Methylnaphthalene	50.0	53.4		ug/L		107	61 - 114	15	30
1-Methylphenanthrene	50.0	58.7		ug/L		117	75 - 118	15	30
2,2'-oxybis[1-chloropropane]	50.0	47.7		ug/L		95	48 - 110	7	30
2,3,4,6-Tetrachlorophenol	50.0	63.1		ug/L		126	43 - 137	26	30
2,3-Dichloroaniline	50.0	51.3		ug/L		103	57 - 124	16	30
2,4,5-Trichlorophenol	50.0	65.1		ug/L		130	69 - 133	26	30
2,4,6-Trichlorophenol	50.0	61.4		ug/L		123	37 - 144	20	30
2,4-Dichlorophenol	50.0	61.0		ug/L		122	39 - 135	18	30
2,4-Dimethylphenol	50.0	46.6		ug/L		93	32 - 120	16	30
2,4-Dinitrophenol	100	142	*1	ug/L		142	10 - 191	33	30
2,4-Dinitrotoluene	50.0	71.1	*+	ug/L		142	39 - 139	27	30
2,6-Dichlorophenol	50.0	58.8		ug/L		118	77 - 120	20	30
2,6-Dinitrotoluene	50.0	64.2		ug/L		128	50 - 158	22	30
2-Chloronaphthalene	50.0	45.9		ug/L		92	60 - 120	9	24

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-426836/3-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 426836

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chlorophenol	50.0	47.8		ug/L		96	23 - 134	13	30
2-Methylnaphthalene	50.0	54.5		ug/L		109	50 - 114	13	30
2-Methylphenol	50.0	46.5		ug/L		93	52 - 113	10	30
2-Nitroaniline	50.0	60.6		ug/L		121	60 - 125	27	30
2-Nitrophenol	50.0	56.7		ug/L		113	29 - 182	19	30
3,3'-Dichlorobenzidine	100	101		ug/L		101	10 - 200	24	30
3-Nitroaniline	50.0	57.5		ug/L		115	36 - 147	27	30
4,6-Dinitro-2-methylphenol	100	135		ug/L		135	10 - 181	24	30
4-Bromophenyl-phenylether	50.0	53.9		ug/L		108	53 - 127	1	30
4-Chloro-3-methylphenol	50.0	57.5		ug/L		115	22 - 147	24	30
4-Chloroaniline	50.0	45.0		ug/L		90	33 - 109	18	30
4-Chlorophenyl-phenylether	50.0	60.8		ug/L		122	25 - 158	18	30
4-Methylphenol	50.0	37.9		ug/L		76	47 - 96	8	30
4-Nitroaniline	50.0	59.1	*1	ug/L		118	36 - 150	38	30
4-Nitrophenol	100	64.3	*1	ug/L		64	10 - 132	32	30
Acenaphthene	50.0	52.6		ug/L		105	47 - 145	13	30
Acenaphthylene	50.0	51.6		ug/L		103	33 - 145	14	30
Acetophenone	50.0	52.4		ug/L		105	55 - 122	13	30
Aniline	50.0	34.3		ug/L		69	21 - 106	14	30
Anthracene	50.0	54.4		ug/L		109	27 - 133	10	30
a-Terpineol	50.0	48.7		ug/L		97	56 - 132	12	30
Benzidine	100	18.5	J	ug/L		19	10 - 72	12	30
Benzo[a]anthracene	50.0	53.9		ug/L		108	33 - 143	12	30
Benzo[a]pyrene	50.0	57.7		ug/L		115	17 - 163	14	30
Benzo[b]fluoranthene	50.0	50.3		ug/L		101	24 - 159	13	30
Benzo[g,h,i]perylene	50.0	53.7		ug/L		107	10 - 200	4	30
Benzo[k]fluoranthene	50.0	53.5		ug/L		107	11 - 162	14	30
Benzoic acid	50.0	40.7	*1	ug/L		81	10 - 96	52	30
Benzyl alcohol	50.0	42.5		ug/L		85	53 - 137	12	30
Bis(2-chloroethoxy)methane	50.0	51.8		ug/L		104	33 - 184	14	30
Bis(2-chloroethyl)ether	50.0	48.5		ug/L		97	12 - 158	12	30
Bis(2-ethylhexyl) phthalate	50.0	57.9		ug/L		116	10 - 158	22	30
Butylbenzylphthalate	50.0	48.8		ug/L		98	10 - 152	15	30
Carbazole	50.0	56.3		ug/L		113	62 - 127	19	30
Chrysene	50.0	56.0		ug/L		112	17 - 168	12	30
Dibenz(a,h)anthracene	50.0	56.9		ug/L		114	10 - 200	8	30
Dibenzofuran	50.0	56.1		ug/L		112	60 - 126	15	30
Diethylphthalate	50.0	53.3		ug/L		107	10 - 120	17	30
Dimethylphthalate	50.0	48.1		ug/L		96	10 - 120	10	30
Di-n-butyl phthalate	50.0	52.2		ug/L		104	10 - 120	11	30
Di-n-octyl phthalate	50.0	60.3	*1	ug/L		121	10 - 146	34	30
Diphenyl ether	50.0	49.1		ug/L		98	63 - 121	12	30
Fluoranthene	50.0	58.1		ug/L		116	26 - 137	16	30
Fluorene	50.0	57.3		ug/L		115	59 - 121	20	30
Hexachlorobenzene	50.0	59.2		ug/L		118	10 - 152	2	30
Hexachlorobutadiene	50.0	44.2		ug/L		88	24 - 120	3	30
Hexachlorocyclopentadiene	50.0	18.5		ug/L		37	10 - 87	11	30
Hexachloroethane	50.0	38.8		ug/L		78	40 - 120	7	30
Indeno[1,2,3-cd]pyrene	50.0	57.2		ug/L		114	10 - 171	7	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-426836/3-A
Matrix: Water
Analysis Batch: 427045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 426836

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isophorone			50.0	49.8		ug/L		100	21 - 196	12	30
Naphthalene			50.0	48.3		ug/L		97	21 - 133	9	30
n-Decane			50.0	35.5		ug/L		71	15 - 104	9	30
n-Docosane			50.0	51.0		ug/L		102	41 - 167	13	30
n-Eicosane			50.0	49.2		ug/L		98	41 - 162	13	30
n-Hexadecane			50.0	44.6		ug/L		89	39 - 134	13	30
Nitrobenzene			50.0	47.7		ug/L		95	35 - 180	9	30
N-Nitrosodimethylamine			50.0	29.9		ug/L		60	33 - 83	6	30
N-Nitrosodi-n-propylamine			50.0	47.1		ug/L		94	10 - 200	13	30
N-Nitrosodiphenylamine			42.5	45.2		ug/L		106	63 - 127	4	30
n-Octadecane			50.0	44.2		ug/L		88	51 - 134	4	30
n-Tetradecane			50.0	36.1		ug/L		72	19 - 133	7	30
Pentachlorophenol			100	138		ug/L		138	14 - 176	18	30
Phenanthrene			50.0	52.5		ug/L		105	54 - 120	7	30
Phenol			50.0	25.0		ug/L		50	10 - 120	7	30
Pyrene			50.0	56.3		ug/L		113	52 - 120	13	30
Pyridine			100	48.6		ug/L		49	27 - 75	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*106*		*10 - 150*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*
2-Fluorophenol (Surr)	*48*		*10 - 83*
Nitrobenzene-d5 (Surr)	*77*		*41 - 121*
Phenol-d5 (Surr)	*35*		*10 - 63*
p-Terphenyl-d14 (Surr)	*105*		*28 - 134*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 410-424817/5
Matrix: Water
Analysis Batch: 424817

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	ND		50	23	ug/L			09/28/23 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*102*		*63 - 135*		*09/28/23 11:13*	*1*

Lab Sample ID: LCS 410-424817/6
Matrix: Water
Analysis Batch: 424817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
GRO (1C)			1100	1010		ug/L		91	70 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*94*		*63 - 135*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCSD 410-424817/7
Matrix: Water
Analysis Batch: 424817

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
GRO (1C)			1100	1030		ug/L		94	70 - 123	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*94*		*63 - 135*

Lab Sample ID: 410-144546-1 MS
Matrix: Groundwater
Analysis Batch: 424817

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
GRO (1C)	1900		1120	2930		ug/L		96	70 - 123		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*134*		*63 - 135*

Lab Sample ID: 410-144546-1 MSD
Matrix: Groundwater
Analysis Batch: 424817

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
GRO (1C)	1900		1120	2950		ug/L		98	70 - 123	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid) (1C)	*133*		*63 - 135*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-429006/1-A
Matrix: Water
Analysis Batch: 428933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/09/23 10:55	10/09/23 11:00	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/09/23 10:55	10/09/23 11:00	1
Methane (1C)	ND		5.0	3.0	ug/L		10/09/23 10:55	10/09/23 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*94*		*43 - 133*	*10/09/23 10:55*	*10/09/23 11:00*	*1*

Lab Sample ID: LCS 410-429006/2-A
Matrix: Water
Analysis Batch: 428933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429006

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane (1C)			61.7	64.0		ug/L		104	85 - 115		
Ethene (1C)			58.3	60.1		ug/L		103	83 - 115		

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 410-429006/2-A
Matrix: Water
Analysis Batch: 428933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429006

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane (1C)			59.8	62.3		ug/L		104	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*93*		*43 - 133*

Lab Sample ID: LCSD 410-429006/3-A
Matrix: Water
Analysis Batch: 428933

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 429006

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)			61.7	62.2		ug/L		101	85 - 115	3	20
Ethene (1C)			58.3	58.5		ug/L		100	83 - 115	3	20
Methane (1C)			59.8	60.1		ug/L		101	85 - 115	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene (1C)	*93*		*43 - 133*

Lab Sample ID: MB 410-429458/1-A
Matrix: Water
Analysis Batch: 429407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		10/10/23 10:14	10/10/23 11:19	1
Ethene (1C)	ND		5.0	1.0	ug/L		10/10/23 10:14	10/10/23 11:19	1
Methane (1C)	ND		5.0	3.0	ug/L		10/10/23 10:14	10/10/23 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*98*		*43 - 133*	*10/10/23 10:14*	*10/10/23 11:19*	*1*

Lab Sample ID: LCS 410-429458/2-A
Matrix: Water
Analysis Batch: 429407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429458

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane (1C)			61.7	61.5		ug/L		100	85 - 115		
Ethene (1C)			58.3	58.4		ug/L		100	83 - 115		
Methane (1C)			59.8	64.3		ug/L		108	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*98*		*43 - 133*

Lab Sample ID: LCSD 410-429458/3-A
Matrix: Water
Analysis Batch: 429407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 429458

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)			61.7	61.1		ug/L		99	85 - 115	1	20
Ethene (1C)			58.3	57.8		ug/L		99	83 - 115	1	20

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 410-429458/3-A
Matrix: Water
Analysis Batch: 429407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 429458

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane (1C)			59.8	63.4		ug/L		106	85 - 115	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene (1C)	*98*		*43 - 133*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 410-427122/1-A
Matrix: Water
Analysis Batch: 427411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 427122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	0.719		0.10	0.045	mg/L		10/04/23 08:19	10/05/23 00:38	1
>C28-C35 (1C)	0.389		0.10	0.045	mg/L		10/04/23 08:19	10/05/23 00:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*85*		*32 - 125*	*10/04/23 08:19*	*10/05/23 00:38*	*1*

Lab Sample ID: LCS 410-427122/2-A
Matrix: Water
Analysis Batch: 427411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427122

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DRO (C10-C28) (1C)			0.604	0.365		mg/L		60	20 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o- terphenyl (Surr) (1C)	*73*		*32 - 125*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-429247/5
Matrix: Water
Analysis Batch: 429247

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			10/10/23 02:35	1
Chloride	ND		1.5	0.60	mg/L			10/10/23 02:35	1

Lab Sample ID: LCS 410-429247/3
Matrix: Water
Analysis Batch: 429247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			7.50	7.05		mg/L		94	90 - 110		
Chloride			3.00	2.80		mg/L		93	90 - 110		

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 410-429247/4
Matrix: Water
Analysis Batch: 429247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			7.50	7.04		mg/L		94	90 - 110	0	20
Chloride			3.00	2.81		mg/L		94	90 - 110	0	20

Lab Sample ID: 410-144546-2 MS
Matrix: Surface Water
Analysis Batch: 429247

Client Sample ID: RECEIVING_WATER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	10000	F1	10000	23000	F1	mg/L		127	90 - 110		

Lab Sample ID: 410-144546-2 DU
Matrix: Surface Water
Analysis Batch: 429247

Client Sample ID: RECEIVING_WATER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	10000	F1		10300		mg/L				0.3	15

Lab Sample ID: MB 410-429791/5
Matrix: Water
Analysis Batch: 429791

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			10/11/23 03:30	1
Chloride	ND		1.5	0.60	mg/L			10/11/23 03:30	1

Lab Sample ID: LCS 410-429791/3
Matrix: Water
Analysis Batch: 429791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			7.50	7.17		mg/L		96	90 - 110		
Chloride			3.00	2.84		mg/L		95	90 - 110		

Lab Sample ID: LCSD 410-429791/4
Matrix: Water
Analysis Batch: 429791

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			7.50	7.22		mg/L		96	90 - 110	1	20
Chloride			3.00	2.88		mg/L		96	90 - 110	2	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-426385/1-A
Matrix: Water
Analysis Batch: 426959

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 426385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		10/02/23 20:56	10/03/23 14:50	1
Aluminum	ND		30	12	ug/L		10/02/23 20:56	10/03/23 14:50	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-426385/1-A
Matrix: Water
Analysis Batch: 426959

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 426385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.68	ug/L		10/02/23 20:56	10/03/23 14:50	1
Barium	ND		2.0	0.75	ug/L		10/02/23 20:56	10/03/23 14:50	1
Beryllium	ND		0.50	0.12	ug/L		10/02/23 20:56	10/03/23 14:50	1
Cadmium	ND		0.50	0.15	ug/L		10/02/23 20:56	10/03/23 14:50	1
Calcium	ND		120	50	ug/L		10/02/23 20:56	10/03/23 14:50	1
Chromium	ND		2.0	0.55	ug/L		10/02/23 20:56	10/03/23 14:50	1
Cobalt	ND		0.50	0.16	ug/L		10/02/23 20:56	10/03/23 14:50	1
Copper	ND		1.0	0.36	ug/L		10/02/23 20:56	10/03/23 14:50	1
Iron	ND		50	20	ug/L		10/02/23 20:56	10/03/23 14:50	1
Lead	ND		0.50	0.12	ug/L		10/02/23 20:56	10/03/23 14:50	1
Magnesium	ND		50	16	ug/L		10/02/23 20:56	10/03/23 14:50	1
Manganese	ND		2.0	0.95	ug/L		10/02/23 20:56	10/03/23 14:50	1
Nickel	ND		1.0	0.40	ug/L		10/02/23 20:56	10/03/23 14:50	1
Potassium	ND		200	65	ug/L		10/02/23 20:56	10/03/23 14:50	1
Selenium	ND		1.0	0.28	ug/L		10/02/23 20:56	10/03/23 14:50	1
Silver	ND		0.50	0.10	ug/L		10/02/23 20:56	10/03/23 14:50	1
Sodium	ND		200	90	ug/L		10/02/23 20:56	10/03/23 14:50	1
Thallium	ND		0.50	0.13	ug/L		10/02/23 20:56	10/03/23 14:50	1
Vanadium	ND		4.0	0.79	ug/L		10/02/23 20:56	10/03/23 14:50	1
Zinc	ND		10	4.0	ug/L		10/02/23 20:56	10/03/23 14:50	1

Lab Sample ID: LCS 410-426385/2-A
Matrix: Water
Analysis Batch: 426959

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 426385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	97.5		ug/L		97	85 - 115
Aluminum	5000	5050		ug/L		101	85 - 115
Arsenic	500	497		ug/L		99	85 - 115
Barium	500	493		ug/L		99	85 - 115
Beryllium	50.0	49.0		ug/L		98	85 - 115
Cadmium	50.0	51.7		ug/L		103	85 - 115
Calcium	5000	5090		ug/L		102	85 - 115
Chromium	500	493		ug/L		99	85 - 115
Cobalt	500	499		ug/L		100	85 - 115
Copper	500	504		ug/L		101	85 - 115
Iron	5000	4930		ug/L		99	85 - 115
Lead	50.0	50.3		ug/L		101	85 - 115
Magnesium	5000	5030		ug/L		101	85 - 115
Manganese	500	494		ug/L		99	85 - 115
Nickel	500	504		ug/L		101	85 - 115
Potassium	5000	5040		ug/L		101	85 - 115
Selenium	100	101		ug/L		101	85 - 115
Silver	50.0	50.8		ug/L		102	85 - 115
Sodium	5000	5000		ug/L		100	85 - 115
Thallium	100	100		ug/L		100	85 - 115
Vanadium	500	501		ug/L		100	85 - 115
Zinc	500	499		ug/L		100	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-427571/1-A
Matrix: Water
Analysis Batch: 427772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 427571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		10/05/23 00:26	10/05/23 07:54	1

Lab Sample ID: LCS 410-427571/2-A
Matrix: Water
Analysis Batch: 427772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427571

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00100	0.000936		mg/L		94	85 - 115		

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-425669/1
Matrix: Water
Analysis Batch: 425669

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			09/29/23 20:36	1

Lab Sample ID: LCS 410-425669/2
Matrix: Water
Analysis Batch: 425669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
HEM (Oil & Grease)			40.0	36.40		mg/L		91	78 - 114		

Lab Sample ID: LCSD 410-425669/3
Matrix: Water
Analysis Batch: 425669

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM (Oil & Grease)			40.0	35.90		mg/L		90	78 - 114	1	13

Lab Sample ID: 410-144546-1 MS
Matrix: Groundwater
Analysis Batch: 425669

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
HEM (Oil & Grease)	2.2	J	43.0	36.34		mg/L		79	78 - 114		

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-425165/3
Matrix: Water
Analysis Batch: 425165

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			09/28/23 21:06	1

Method: 180.1 - Turbidity, Nephelometric (Continued)

Lab Sample ID: LCS 410-425165/4
Matrix: Water
Analysis Batch: 425165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Turbidity			10.0	10		NTU		101	86 - 110		

Lab Sample ID: 410-144546-1 DU
Matrix: Groundwater
Analysis Batch: 425165

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Turbidity	60			60		NTU				2	10

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-425237/11
Matrix: Water
Analysis Batch: 425237

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			09/28/23 19:40	1

Lab Sample ID: LCS 410-425237/12
Matrix: Water
Analysis Batch: 425237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			189	183		mg/L		97	66 - 110		

Lab Sample ID: LCSD 410-425237/13
Matrix: Water
Analysis Batch: 425237

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5			189	183		mg/L		97	66 - 110	0	10

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-425473/16
Matrix: Water
Analysis Batch: 425473

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			09/29/23 07:47	1

Lab Sample ID: LCS 410-425473/17
Matrix: Water
Analysis Batch: 425473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Hardness			40.0	38.7		mg/L		97	90 - 110		

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-425757/3
Matrix: Water
Analysis Batch: 425757

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			09/29/23 18:53	1

Lab Sample ID: LCS 410-425757/4
Matrix: Water
Analysis Batch: 425757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1400		umhos/cm		99	90 - 110

Method: 2540C - 2015 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-425254/1
Matrix: Water
Analysis Batch: 425254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			09/29/23 06:50	1

Lab Sample ID: LCS 410-425254/2
Matrix: Water
Analysis Batch: 425254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	199		mg/L		100	90 - 110

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-425578/1
Matrix: Water
Analysis Batch: 425578

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.0	1.0	mg/L			09/29/23 16:17	1

Lab Sample ID: LCS 410-425578/2
Matrix: Water
Analysis Batch: 425578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	144		mg/L		96	89 - 105

Method: 2540F-2015 - Solids, Settleable

Lab Sample ID: MB 410-425126/1
Matrix: Water
Analysis Batch: 425126

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			09/28/23 19:34	1

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-429017/2-A
Matrix: Water
Analysis Batch: 429676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		10/09/23 11:59	10/10/23 11:06	1

Lab Sample ID: LCS 410-429017/1-A
Matrix: Water
Analysis Batch: 429676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as PO4	3.99	4.29		mg/L		108	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 410-425236/4
Matrix: Water
Analysis Batch: 425236

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			09/29/23 03:17	1

Lab Sample ID: LCS 410-425236/5
Matrix: Water
Analysis Batch: 425236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	500	509		mg/L		102	90 - 110

Lab Sample ID: 410-144546-1 MS
Matrix: Groundwater
Analysis Batch: 425236

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	47	J	400	407		mg/L		90	90 - 110

Lab Sample ID: 410-144546-1 DU
Matrix: Groundwater
Analysis Batch: 425236

Client Sample ID: ORS-INFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	47	J	51.6	J	mg/L		9	10

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-425484/19
Matrix: Water
Analysis Batch: 425484

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			09/29/23 09:58	1

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: MB 410-425484/60
Matrix: Water
Analysis Batch: 425484

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			09/29/23 12:02	1

Lab Sample ID: LCS 410-425484/48
Matrix: Water
Analysis Batch: 425484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.235		mg/L		94	90 - 110

Lab Sample ID: LCSD 410-425484/51
Matrix: Water
Analysis Batch: 425484

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.250	0.234		mg/L		93	90 - 110	1	6

Lab Sample ID: MB 410-425792/19
Matrix: Water
Analysis Batch: 425792

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			09/30/23 12:24	1

Lab Sample ID: LCS 410-425792/17
Matrix: Water
Analysis Batch: 425792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.227		mg/L		91	90 - 110

Lab Sample ID: LCSD 410-425792/18
Matrix: Water
Analysis Batch: 425792

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.250	0.228		mg/L		91	90 - 110	0	6

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-425238/14
Matrix: Water
Analysis Batch: 425238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		101	95 - 105

Method: 4500 H+ B-2011 - pH (Continued)

Lab Sample ID: LCSD 410-425238/15
Matrix: Water
Analysis Batch: 425238

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH			7.00	7.0		S.U.		100	95 - 105	0	3

Method: 5210 B-2016 - BOD, 5-Day

Lab Sample ID: SCB 410-427399/4
Matrix: Water
Analysis Batch: 427399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.987		0.0000010	0.0000010	mg/L			09/28/23 12:35	1

Lab Sample ID: USB 410-427399/2
Matrix: Water
Analysis Batch: 427399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.200		0.0000010	0.0000010	mg/L			09/28/23 12:35	1

Lab Sample ID: LCS 410-427399/27
Matrix: Water
Analysis Batch: 427399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	168		mg/L		85	85 - 115		

Lab Sample ID: LCS 410-427399/49
Matrix: Water
Analysis Batch: 427399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	174		mg/L		88	85 - 115		

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 410-428796/34
Matrix: Water
Analysis Batch: 428796

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000	500	ug/L			10/05/23 06:53	1
TOC Result 1	ND		1000	500	ug/L			10/05/23 06:53	1
TOC Result 2	ND		1000	500	ug/L			10/05/23 06:53	1
TOC Result 3	ND		1000	500	ug/L			10/05/23 06:53	1
TOC Result 4	ND		1000	500	ug/L			10/05/23 06:53	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 410-428796/33
Matrix: Water
Analysis Batch: 428796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	25000	25200		ug/L		101	91 - 113

GC/MS VOA

Analysis Batch: 425467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	624.1	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	624.1	
410-144546-3	QAQC_TB	Total/NA	Water	624.1	
MB 410-425467/5	Method Blank	Total/NA	Water	624.1	
LCS 410-425467/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-425467/1004	Lab Control Sample	Total/NA	Water	624.1	
410-144546-2 MS	RECEIVING_WATER-002	Total/NA	Surface Water	624.1	
410-144546-2 MSD	RECEIVING_WATER-002	Total/NA	Surface Water	624.1	

Analysis Batch: 428849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	8260D	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	8260D	
MB 410-428849/6	Method Blank	Total/NA	Water	8260D	
LCS 410-428849/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 426836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	625.1	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	625.1	
MB 410-426836/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-426836/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-426836/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 427045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	625.1	426836
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	625.1	426836
MB 410-426836/1-A	Method Blank	Total/NA	Water	625.1	426836
LCS 410-426836/2-A	Lab Control Sample	Total/NA	Water	625.1	426836
LCSD 410-426836/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	426836

GC VOA

Analysis Batch: 424817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	8015C	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	8015C	
MB 410-424817/5	Method Blank	Total/NA	Water	8015C	
LCS 410-424817/6	Lab Control Sample	Total/NA	Water	8015C	
LCSD 410-424817/7	Lab Control Sample Dup	Total/NA	Water	8015C	
410-144546-1 MS	ORS-INFLUENT	Total/NA	Groundwater	8015C	
410-144546-1 MSD	ORS-INFLUENT	Total/NA	Groundwater	8015C	

Analysis Batch: 428933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	429006
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	RSK-175	429006
MB 410-429006/1-A	Method Blank	Total/NA	Water	RSK-175	429006
LCS 410-429006/2-A	Lab Control Sample	Total/NA	Water	RSK-175	429006

GC VOA (Continued)

Analysis Batch: 428933 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-429006/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	429006

Prep Batch: 429006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	RSK-175	
MB 410-429006/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-429006/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-429006/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 429407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1 - DL	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	429458
MB 410-429458/1-A	Method Blank	Total/NA	Water	RSK-175	429458
LCS 410-429458/2-A	Lab Control Sample	Total/NA	Water	RSK-175	429458
LCSD 410-429458/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	429458

Prep Batch: 429458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1 - DL	ORS-INFLUENT	Total/NA	Groundwater	RSK-175	
MB 410-429458/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-429458/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-429458/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

GC Semi VOA

Prep Batch: 427122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	3510C	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	3510C	
MB 410-427122/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-427122/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 427411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	8015C	427122
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	8015C	427122
MB 410-427122/1-A	Method Blank	Total/NA	Water	8015C	427122
LCS 410-427122/2-A	Lab Control Sample	Total/NA	Water	8015C	427122

HPLC/IC

Analysis Batch: 429247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 410-429247/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-429247/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-429247/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	
410-144546-2 MS	RECEIVING_WATER-002	Total/NA	Surface Water	EPA 300.0 R2.1	
410-144546-2 DU	RECEIVING_WATER-002	Total/NA	Surface Water	EPA 300.0 R2.1	

HPLC/IC

Analysis Batch: 429791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	EPA 300.0 R2.1	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 410-429791/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-429791/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-429791/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 426385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	
410-144546-2	RECEIVING_WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	
MB 410-426385/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-426385/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Analysis Batch: 426959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	426385
410-144546-1	ORS-INFLUENT	Total Recoverable	Groundwater	200.8 Rev 5.4	426385
410-144546-2	RECEIVING_WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	426385
410-144546-2	RECEIVING_WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	426385
410-144546-2	RECEIVING_WATER-002	Total Recoverable	Surface Water	200.8 Rev 5.4	426385
MB 410-426385/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	426385
LCS 410-426385/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	426385

Prep Batch: 427571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	245.1	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	245.1	
MB 410-427571/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-427571/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 427772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	245.1	427571
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	245.1	427571
MB 410-427571/1-A	Method Blank	Total/NA	Water	245.1	427571
LCS 410-427571/2-A	Lab Control Sample	Total/NA	Water	245.1	427571

General Chemistry

Analysis Batch: 424690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	SM 2330B	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	SM 2330B	

Analysis Batch: 424866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	353.2	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	353.2	

General Chemistry

Analysis Batch: 425126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	2540F-2015	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	2540F-2015	
MB 410-425126/1	Method Blank	Total/NA	Water	2540F-2015	

Analysis Batch: 425165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	180.1	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	180.1	
MB 410-425165/3	Method Blank	Total/NA	Water	180.1	
LCS 410-425165/4	Lab Control Sample	Total/NA	Water	180.1	
410-144546-1 DU	ORS-INFLUENT	Total/NA	Groundwater	180.1	

Analysis Batch: 425236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	410.4	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	410.4	
MB 410-425236/4	Method Blank	Total/NA	Water	410.4	
LCS 410-425236/5	Lab Control Sample	Total/NA	Water	410.4	
410-144546-1 MS	ORS-INFLUENT	Total/NA	Groundwater	410.4	
410-144546-1 DU	ORS-INFLUENT	Total/NA	Groundwater	410.4	

Analysis Batch: 425237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	2320B-2011	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	2320B-2011	
MB 410-425237/11	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-425237/12	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-425237/13	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 425238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	4500 H+ B-2011	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	4500 H+ B-2011	
LCS 410-425238/14	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	
LCSD 410-425238/15	Lab Control Sample Dup	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 425254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	2540C - 2015	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	2540C - 2015	
MB 410-425254/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-425254/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 425473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	2340C-2011	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	2340C-2011	
MB 410-425473/16	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-425473/17	Lab Control Sample	Total/NA	Water	2340C-2011	

General Chemistry

Analysis Batch: 425484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	420.4	
MB 410-425484/19	Method Blank	Total/NA	Water	420.4	
MB 410-425484/60	Method Blank	Total/NA	Water	420.4	
LCS 410-425484/48	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-425484/51	Lab Control Sample Dup	Total/NA	Water	420.4	

Analysis Batch: 425578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	2540D-2015	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	2540D-2015	
MB 410-425578/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-425578/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 425669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	1664A	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	1664A	
MB 410-425669/1	Method Blank	Total/NA	Water	1664A	
LCS 410-425669/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-425669/3	Lab Control Sample Dup	Total/NA	Water	1664A	
410-144546-1 MS	ORS-INFLUENT	Total/NA	Groundwater	1664A	

Analysis Batch: 425757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	2510B-2011	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	2510B-2011	
MB 410-425757/3	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-425757/4	Lab Control Sample	Total/NA	Water	2510B-2011	

Analysis Batch: 425792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	420.4	
MB 410-425792/19	Method Blank	Total/NA	Water	420.4	
LCS 410-425792/17	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-425792/18	Lab Control Sample Dup	Total/NA	Water	420.4	

Analysis Batch: 427399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	5210 B-2016	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	5210 B-2016	
SCB 410-427399/4	Method Blank	Total/NA	Water	5210 B-2016	
USB 410-427399/2	Method Blank	Total/NA	Water	5210 B-2016	
LCS 410-427399/27	Lab Control Sample	Total/NA	Water	5210 B-2016	
LCS 410-427399/49	Lab Control Sample	Total/NA	Water	5210 B-2016	

Prep Batch: 427924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	351.2	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	351.2	

QC Association Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

General Chemistry

Analysis Batch: 428796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	9060A	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	9060A	
MB 410-428796/34	Method Blank	Total/NA	Water	9060A	
LCS 410-428796/33	Lab Control Sample	Total/NA	Water	9060A	

Prep Batch: 429017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	365.1	
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	365.1	
MB 410-429017/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-429017/1-A	Lab Control Sample	Total/NA	Water	365.1	

Analysis Batch: 429506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	351.2	427924
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	351.2	427924

Analysis Batch: 429676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-144546-1	ORS-INFLUENT	Total/NA	Groundwater	365.1	429017
410-144546-2	RECEIVING_WATER-002	Total/NA	Surface Water	365.1	429017
MB 410-429017/2-A	Method Blank	Total/NA	Water	365.1	429017
LCS 410-429017/1-A	Lab Control Sample	Total/NA	Water	365.1	429017

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: ORS-INFLUENT

Date Collected: 09/27/23 08:25
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-1

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	425467	UJML	ELLE	09/29/23 16:07
Total/NA	Analysis	8260D		1	428849	TQ4J	ELLE	10/09/23 15:57
Total/NA	Prep	625.1			426836	QJZ6	ELLE	10/03/23 15:34
Total/NA	Analysis	625.1		1	427045	GLQ9	ELLE	10/04/23 20:25
Total/NA	Analysis	8015C		1	424817	SE8S	ELLE	09/28/23 13:28
Total/NA	Prep	RSK-175			429006	HQR6	ELLE	10/09/23 10:55
Total/NA	Analysis	RSK-175		1	428933	LXF2	ELLE	10/09/23 15:17
Total/NA	Prep	RSK-175	DL		429458	HQR6	ELLE	10/10/23 10:14
Total/NA	Analysis	RSK-175	DL	5	429407	WN7O	ELLE	10/10/23 14:48
Total/NA	Prep	3510C			427122	QKX3	ELLE	10/04/23 08:19
Total/NA	Analysis	8015C		1	427411	KP5X	ELLE	10/05/23 10:30
Total/NA	Analysis	EPA 300.0 R2.1		200	429247	L4QM	ELLE	10/10/23 03:42
Total/NA	Analysis	EPA 300.0 R2.1		20	429791	L4QM	ELLE	10/11/23 04:54
Total Recoverable	Prep	200.8 Rev 5.4			426385	UAMX	ELLE	10/02/23 20:56
Total Recoverable	Analysis	200.8 Rev 5.4		1	426959	UCIG	ELLE	10/03/23 15:40
Total Recoverable	Prep	200.8 Rev 5.4			426385	UAMX	ELLE	10/02/23 20:56
Total Recoverable	Analysis	200.8 Rev 5.4		5	426959	UCIG	ELLE	10/03/23 16:09
Total/NA	Prep	245.1			427571	UAMX	ELLE	10/05/23 00:26
Total/NA	Analysis	245.1		1	427772	UEFS	ELLE	10/05/23 08:05
Total/NA	Analysis	1664A		1	425669	QT6L	ELLE	09/29/23 20:36
Total/NA	Analysis	180.1		5	425165	UDS7	ELLE	09/28/23 21:06
Total/NA	Analysis	2320B-2011		1	425237	DI9Q	ELLE	09/28/23 22:18
Total/NA	Analysis	2340C-2011		10	425473	USAE	ELLE	09/29/23 09:50
Total/NA	Analysis	2510B-2011		1	425757	DI9Q	ELLE	09/29/23 20:23
Total/NA	Analysis	2540C - 2015		1	425254	M98K	ELLE	09/29/23 06:50
Total/NA	Analysis	2540D-2015		1	425578	UOCA	ELLE	09/29/23 16:17 - 10/02/23 08:30 [1]
Total/NA	Analysis	2540F-2015		1	425126	DI9Q	ELLE	09/28/23 19:34
Total/NA	Prep	351.2			427924	NLE3	ELLE	10/05/23 14:20 - 10/05/23 17:20 [1]
Total/NA	Analysis	351.2		1	429506	JCG7	ELLE	10/09/23 10:52
Total/NA	Analysis	353.2		1	424866	UKJF	ELLE	09/28/23 09:48
Total/NA	Prep	365.1			429017	UJE2	ELLE	10/09/23 11:59 - 10/09/23 13:00 [1]
Total/NA	Analysis	365.1		1	429676	JCG7	ELLE	10/10/23 11:10
Total/NA	Analysis	410.4		1	425236	USAE	ELLE	09/29/23 03:17
Total/NA	Analysis	420.4		1	425484	Q3HN	ELLE	09/29/23 11:55
Total/NA	Analysis	4500 H+ B-2011		1	425238	DI9Q	ELLE	09/28/23 22:18
Total/NA	Analysis	5210 B-2016		1	427399	B6LN	ELLE	09/28/23 19:00
Total/NA	Analysis	9060A		1	428796	P684	ELLE	10/05/23 12:39
Total/NA	Analysis	SM 2330B		1	424690	USJM	ELLE	09/28/23 05:04

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: RECEIVING_WATER-002

Date Collected: 09/27/23 09:15
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-2

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	425467	UJML	ELLE	09/29/23 15:44
Total/NA	Analysis	8260D		1	428849	TQ4J	ELLE	10/09/23 16:17
Total/NA	Prep	625.1			426836	QJZ6	ELLE	10/03/23 15:34
Total/NA	Analysis	625.1		1	427045	GLQ9	ELLE	10/04/23 20:47
Total/NA	Analysis	8015C		1	424817	SE8S	ELLE	09/28/23 17:45
Total/NA	Prep	RSK-175			429006	HQR6	ELLE	10/09/23 10:55
Total/NA	Analysis	RSK-175		1	428933	LXF2	ELLE	10/09/23 15:35
Total/NA	Prep	3510C			427122	QKX3	ELLE	10/04/23 08:19
Total/NA	Analysis	8015C		1	427411	KP5X	ELLE	10/05/23 10:56
Total/NA	Analysis	EPA 300.0 R2.1		5000	429247	L4QM	ELLE	10/10/23 02:52
Total/NA	Analysis	EPA 300.0 R2.1		1000	429791	L4QM	ELLE	10/11/23 04:03
Total Recoverable	Prep	200.8 Rev 5.4			426385	UAMX	ELLE	10/02/23 20:56
Total Recoverable	Analysis	200.8 Rev 5.4		1	426959	UCIG	ELLE	10/03/23 15:44
Total Recoverable	Prep	200.8 Rev 5.4			426385	UAMX	ELLE	10/02/23 20:56
Total Recoverable	Analysis	200.8 Rev 5.4		10	426959	UCIG	ELLE	10/03/23 16:13
Total Recoverable	Prep	200.8 Rev 5.4			426385	UAMX	ELLE	10/02/23 20:56
Total Recoverable	Analysis	200.8 Rev 5.4		100	426959	UCIG	ELLE	10/03/23 16:15
Total/NA	Prep	245.1			427571	UAMX	ELLE	10/05/23 00:26
Total/NA	Analysis	245.1		1	427772	UEFS	ELLE	10/05/23 08:12
Total/NA	Analysis	1664A		1	425669	QT6L	ELLE	09/29/23 20:36
Total/NA	Analysis	180.1		1	425165	UDS7	ELLE	09/28/23 21:06
Total/NA	Analysis	2320B-2011		1	425237	DI9Q	ELLE	09/28/23 22:24
Total/NA	Analysis	2340C-2011		10	425473	USAE	ELLE	09/29/23 10:01
Total/NA	Analysis	2510B-2011		100	425757	DI9Q	ELLE	09/29/23 20:45
Total/NA	Analysis	2540C - 2015		1	425254	M98K	ELLE	09/29/23 06:50
Total/NA	Analysis	2540D-2015		1	425578	UOCA	ELLE	09/29/23 16:17 - 10/02/23 08:30 [1]
Total/NA	Analysis	2540F-2015		1	425126	DI9Q	ELLE	09/28/23 19:34
Total/NA	Prep	351.2			427924	NLE3	ELLE	10/05/23 14:20 - 10/05/23 17:20 [1]
Total/NA	Analysis	351.2		1	429506	JCG7	ELLE	10/09/23 10:54
Total/NA	Analysis	353.2		1	424866	UKJF	ELLE	09/28/23 09:48
Total/NA	Prep	365.1			429017	UJE2	ELLE	10/09/23 11:59 - 10/09/23 13:00 [1]
Total/NA	Analysis	365.1		1	429676	JCG7	ELLE	10/10/23 11:11
Total/NA	Analysis	410.4		2.5	425236	USAE	ELLE	09/29/23 03:17
Total/NA	Analysis	420.4		2	425792	Q3HN	ELLE	09/30/23 13:43
Total/NA	Analysis	4500 H+ B-2011		1	425238	DI9Q	ELLE	09/28/23 22:24
Total/NA	Analysis	5210 B-2016		1	427399	B6LN	ELLE	09/28/23 19:00
Total/NA	Analysis	9060A		1	428796	P684	ELLE	10/05/23 14:05
Total/NA	Analysis	SM 2330B		1	424690	USJM	ELLE	09/28/23 05:04

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Client Sample ID: QAQC_TB

Date Collected: 06/07/23 00:00
Date Received: 09/27/23 19:15

Lab Sample ID: 410-144546-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	425467	UJML	ELLE	09/29/23 15:20

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

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
365.1	365.1	Groundwater	Total Phosphorus as PO4
365.1	365.1	Surface Water	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
4500 H+ B-2011		Surface Water	pH
4500 H+ B-2011		Surface Water	Temperature
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile
624.1		Groundwater	Methyl iodide
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	n-Propyl acetate
624.1		Groundwater	N-Propylbenzene
624.1		Groundwater	p-Isopropyltoluene
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Surface Water	1,1,1,2-Tetrachloroethane
624.1		Surface Water	1,1-Dichloropropene
624.1		Surface Water	1,2,3-Trichlorobenzene
624.1		Surface Water	1,2,3-Trichloropropane
624.1		Surface Water	1,2,4-Trichlorobenzene
624.1		Surface Water	1,2,4-Trimethylbenzene
624.1		Surface Water	1,2-Dibromo-3-Chloropropane
624.1		Surface Water	1,2-Dibromoethane
624.1		Surface Water	1,2-Dichloroethene (total)
624.1		Surface Water	1,3,5-Trimethylbenzene
624.1		Surface Water	1,3-Dichloropropane
624.1		Surface Water	1,4-Dioxane
624.1		Surface Water	2,2-Dichloropropane
624.1		Surface Water	2-Chloro-1,3-butadiene
624.1		Surface Water	2-Chlorotoluene
624.1		Surface Water	2-Hexanone
624.1		Surface Water	2-Propanol
624.1		Surface Water	4-Chlorotoluene
624.1		Surface Water	Benzyl chloride
624.1		Surface Water	Bromobenzene
624.1		Surface Water	Butyl acetate
624.1		Surface Water	Carbon disulfide
624.1		Surface Water	Cyclohexane
624.1		Surface Water	Dibromomethane
624.1		Surface Water	Dichlorofluoromethane
624.1		Surface Water	di-Isopropyl ether
624.1		Surface Water	Ethyl methacrylate
624.1		Surface Water	Ethyl t-butyl ether
624.1		Surface Water	Freon 123a
624.1		Surface Water	Hexachlorobutadiene
624.1		Surface Water	Isobutyl alcohol
624.1		Surface Water	Isopropyl acetate
624.1		Surface Water	Isopropylbenzene
624.1		Surface Water	Methacrylonitrile
624.1		Surface Water	Methyl iodide
624.1		Surface Water	Methyl methacrylate
624.1		Surface Water	n-Butylbenzene
624.1		Surface Water	n-Heptane
624.1		Surface Water	n-Hexane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
624.1		Surface Water	n-Propyl acetate
624.1		Surface Water	N-Propylbenzene
624.1		Surface Water	p-Isopropyltoluene
624.1		Surface Water	Propionitrile
624.1		Surface Water	sec-Butylbenzene
624.1		Surface Water	t-Amyl methyl ether
624.1		Surface Water	tert-Butylbenzene
624.1		Surface Water	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
625.1	625.1	Surface Water	1,1'-Biphenyl
625.1	625.1	Surface Water	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Surface Water	1,2-Dichlorobenzene
625.1	625.1	Surface Water	1,3-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dioxane
625.1	625.1	Surface Water	1-Methylnaphthalene
625.1	625.1	Surface Water	1-Methylphenanthrene
625.1	625.1	Surface Water	2,3,4,6-Tetrachlorophenol
625.1	625.1	Surface Water	2,6-Dichlorophenol
625.1	625.1	Surface Water	2-Nitroaniline
625.1	625.1	Surface Water	3-Nitroaniline

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
625.1	625.1	Surface Water	4-Chloroaniline
625.1	625.1	Surface Water	4-Nitroaniline
625.1	625.1	Surface Water	Benzoic acid
625.1	625.1	Surface Water	Benzyl alcohol
625.1	625.1	Surface Water	Dibenzofuran
625.1	625.1	Surface Water	Diphenyl ether
625.1	625.1	Surface Water	n-Docosane
625.1	625.1	Surface Water	n-Eicosane
625.1	625.1	Surface Water	n-Hexadecane
625.1	625.1	Surface Water	N-Nitrosodiethylamine
625.1	625.1	Surface Water	N-Nitrosodi-n-butylamine
625.1	625.1	Surface Water	N-Nitrosopyrrolidine
625.1	625.1	Surface Water	n-Tetradecane
625.1	625.1	Surface Water	o-Toluidine
625.1	625.1	Surface Water	Pentachlorobenzene
8015C	3510C	Groundwater	>C28-C35 (1C)
8015C	3510C	Surface Water	>C28-C35 (1C)
SM 2330B		Groundwater	Langelier Index
SM 2330B		Surface Water	Langelier Index

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-144546-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	EPA	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C - 2015	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
2540F-2015	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	EPA	ELLE
420.4	Phenolics, Total Recoverable	EPA	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2016	BOD, 5-Day	SM	ELLE
9060A	Organic Carbon, Total (TOC)	SW846	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-144546-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-144546-1	ORS-INFLUENT	Groundwater	09/27/23 08:25	09/27/23 19:15
410-144546-2	RECEIVING_WATER-002	Surface Water	09/27/23 09:15	09/27/23 19:15
410-144546-3	QAQC_TB	Water	06/07/23 00:00	09/27/23 19:15

410-144546 Chain of Custody

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13438 Group # _____ Sample # _____

EMES-Eurofins Agreement # A2604415

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.		
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097
Consultant PM:	Courtney Lind	P.O. #: 0172 0030Y090	WAL# 5036
Sampler:	DK	XOM PM:	Michael J Burghardt
Bill to:	☐ XOM ☑ Consultant		
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐

Matrix: Soil ☐ Sediment ☐ Tissue ☐ | Water ☑ Potable ☐ Ground ☑ NPDES ☐ Surface | Other: Trip Blank

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix	Total # of Containers	VOCs (624.1) MEK, Acetone, MTBE	200.8, 245.1	625.1_PREC - (MOD) Priority Pollutants SVOCs	300_ORGFM_28D - (MOD) Chloride/Sulfate	SM5210B_Calc - BOD, 5 Day Only	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved	351.2; 365.1, 410.4	2320B, 2510B, 2540C_SingleDry	420.4 - Phenols	353.2_Nitrite - Nitrogen, Nitrite	2540D_Single_Dry - TSS	SM2540F - Settleable Solids	Turbidity (180.1)	SM2330B - Local Method	2340C - Local Method	Oil&Grease (1664A)	RSK_175 Methane Ethane Ethene	9060A - Organic Carbon, Total (TOC)	8015C TPH-DRO/ORO Standard TPH-DRO/ORO	TPH-GRO (8015) #10598
							H	N				S	S		S					N	H	H	P	H	H	
ORS-INFLUENT	9/27/2023	8:25	X		Water	34	6	1	2	1	1	1	2	2	1	1	1	1	1	1	2	2	2	2	3	
RECEIVING_WATER-002	9/27/2023	9:15	X		Water	34	6	1	2	1	1	1	2	2	1	1	1	1	1	1	2	2	2	2	3	
QAQC_TB	6/7/2023	–			Other: Trip Blank	1	1																			

Analyses Requested — Preservation and Filtration Codes

For Lab Use Only

SF #: _____

SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): 5 day 4day 72hour 48hour 24hour

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐

Type III (Reduced non-CLP/NJ Reduced) ☐

TX TRRP-13 ☐

NJ DKQP ☐

NYSDEC Category ☐ A ☐ B

OTHER: Standard with QC summary

EDD Format(s) Needed: EQuIS and Excel

	Relinquished by:	Date	Time	Received by:	Date	Time
1		9/27/23	1510	RPMdm	27Sept23	1510
2	RPMdm	27Sept23	1915			
3						
4						
5					9/27/23	19:25

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-144546-1

Login Number: 144546
List Number: 1
Creator: Kanagy, Nicholas

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Matthew Mueller
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Generated 9/22/2023 3:05:20 AM

JOB DESCRIPTION

EMGPRP-31097

JOB NUMBER

410-142423-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

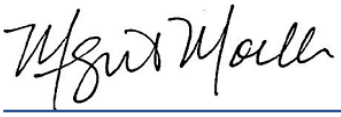
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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9/22/2023 3:05:20 AM

Authorized for release by
Megan Moeller, Client Services Manager
Megan.Moeller@et.eurofinsus.com
(717)556-7261

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

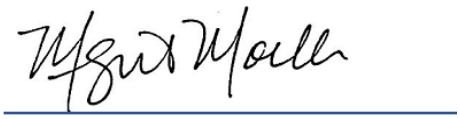

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery 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
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job ID: 410-142423-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-142423-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers 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 9/12/2023 8:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.9°C and 4.6°C

GC/MS VOA
Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: Outfall-01A (410-142423-1), Outfall-001 (410-142423-2) and QAQC_TB (410-142423-3). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile , which are acid-labile compounds that degrade in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 410-419674 recovered above the upper control limit for Benzoic acid. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Client Sample ID: Outfall-01A — Lab Sample ID: 410-142423-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	0.43	J	1.0	0.30	ug/L	1		624.1	Total/NA
2-Hexanone	1.3	J	2.0	0.50	ug/L	1		624.1	Total/NA
n-Heptane	0.50	J	1.0	0.40	ug/L	1		624.1	Total/NA
t-Butyl alcohol	16	J	20	6.0	ug/L	1		624.1	Total/NA
Tetrachloroethene	0.89	J	1.0	0.30	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	1.6		1.0	0.20	ug/L	1		8260D	Total/NA
Pyrene	0.65	J	5.0	0.25	ug/L	1		625.1	Total/NA
Sulfate	160		75	25	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	1100		380	150	mg/L	250		EPA 300.0 R2.1	Total/NA
Arsenic	1.4	J	2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	320		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	160000		12000	5000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Cobalt	1.4		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	370		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	92000		5000	1600	ug/L	100		200.8 Rev 5.4	Total Recoverable
Manganese	2800	^2	2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	1.6		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	21000		200	65	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	530000		20000	9000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Zinc	5.0	J	10	4.0	ug/L	1		200.8 Rev 5.4	Total Recoverable
Turbidity	2.8		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	390		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	310		100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	3900		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	1300		240	96	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	1.5	J	3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	1.9		1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.11		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.55		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	43	J	75	25	mg/L	1		410.4	Total/NA
pH	8.2	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	23.2	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Total Organic Carbon	6800		1000	500	ug/L	1		9060A	Total/NA
TOC Result 1	6600		1000	500	ug/L	1		9060A	Total/NA
TOC Result 2	6800		1000	500	ug/L	1		9060A	Total/NA
TOC Result 3	6900		1000	500	ug/L	1		9060A	Total/NA
TOC Result 4	6800		1000	500	ug/L	1		9060A	Total/NA
Langelier Index	0.47				LangSU	1		SM 2330B	Total/NA

Client Sample ID: Outfall-001 — Lab Sample ID: 410-142423-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene (total)	1.2		1.0	0.20	ug/L	1		624.1	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Client Sample ID: Outfall-001 (Continued)

Lab Sample ID: 410-142423-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2		1.0	0.20	ug/L	1		624.1	Total/NA
t-Butyl alcohol	28		20	6.0	ug/L	1		624.1	Total/NA
Tetrachloroethene	1.1		1.0	0.30	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	1.5		1.0	0.20	ug/L	1		8260D	Total/NA
Pyrene	0.61	J	5.1	0.25	ug/L	1		625.1	Total/NA
Methane (1C) - RA	20		5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	170		38	13	mg/L	25		EPA 300.0 R2.1	Total/NA
Chloride	980		380	150	mg/L	250		EPA 300.0 R2.1	Total/NA
Arsenic	1.7	J	2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	320		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	160000		12000	5000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Cobalt	1.4		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	380		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	90000		5000	1600	ug/L	100		200.8 Rev 5.4	Total Recoverable
Manganese	2700	^2	2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	1.6		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	21000		200	65	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	510000		20000	9000	ug/L	100		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	1.7	J	5.4	1.5	mg/L	1		1664A	Total/NA
Turbidity	3.3		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	390		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	630		250	75	mg/L	25		2340C-2011	Total/NA
Specific Conductance	3900		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	1300		240	96	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	1.7	J	3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	1.6		1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.15		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.54		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	53	J	75	25	mg/L	1		410.4	Total/NA
pH	8.2	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	23.0	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Total Organic Carbon	6600		1000	500	ug/L	1		9060A	Total/NA
TOC Result 1	6400		1000	500	ug/L	1		9060A	Total/NA
TOC Result 2	6300		1000	500	ug/L	1		9060A	Total/NA
TOC Result 3	6800		1000	500	ug/L	1		9060A	Total/NA
TOC Result 4	6900		1000	500	ug/L	1		9060A	Total/NA
Langelier Index	0.49				LangSU	1		SM 2330B	Total/NA

Client Sample ID: QAQC_TB

Lab Sample ID: 410-142423-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Client Sample ID: Outfall-01A
Date Collected: 09/12/23 11:22
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-1
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/16/23 03:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/16/23 03:16	1
1,1,2-Trichloroethane	**0.43**	**J**	1.0	0.30	ug/L			09/16/23 03:16	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/16/23 03:16	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/16/23 03:16	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/16/23 03:16	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/16/23 03:16	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/16/23 03:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
1,4-Dioxane	ND		100	82	ug/L			09/16/23 03:16	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/16/23 03:16	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/16/23 03:16	1
2-Chloroethyl vinyl ether	ND	F1 cn	1.0	0.50	ug/L			09/16/23 03:16	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/16/23 03:16	1
2-Hexanone	**1.3**	**J**	2.0	0.50	ug/L			09/16/23 03:16	1
2-Propanol	ND		20	8.0	ug/L			09/16/23 03:16	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/16/23 03:16	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/16/23 03:16	1
Acetonitrile	ND		50	14	ug/L			09/16/23 03:16	1
Benzene	ND		1.0	0.25	ug/L			09/16/23 03:16	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/16/23 03:16	1
Bromobenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/16/23 03:16	1
Bromoform	ND		1.0	0.30	ug/L			09/16/23 03:16	1
Bromomethane	ND		1.0	0.44	ug/L			09/16/23 03:16	1
Butyl acetate	ND		5.0	0.60	ug/L			09/16/23 03:16	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/16/23 03:16	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/16/23 03:16	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Chloroethane	ND		1.0	0.44	ug/L			09/16/23 03:16	1
Chloroform	ND		1.0	0.30	ug/L			09/16/23 03:16	1
Chloromethane	ND		1.0	0.64	ug/L			09/16/23 03:16	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Cyclohexane	ND		1.0	0.30	ug/L			09/16/23 03:16	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Dibromomethane	ND		1.0	0.20	ug/L			09/16/23 03:16	1

Client Sample ID: Outfall-01A
Date Collected: 09/12/23 11:22
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-1
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	F1	1.0	0.60	ug/L			09/16/23 03:16	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/16/23 03:16	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/16/23 03:16	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/16/23 03:16	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/16/23 03:16	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Freon 113	ND		1.0	0.30	ug/L			09/16/23 03:16	1
Freon 123a	ND		1.0	0.44	ug/L			09/16/23 03:16	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Isobutyl alcohol	ND		50	12	ug/L			09/16/23 03:16	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/16/23 03:16	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/16/23 03:16	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/16/23 03:16	1
Methacrylonitrile	ND		10	2.0	ug/L			09/16/23 03:16	1
Methyl iodide	ND		1.0	0.30	ug/L			09/16/23 03:16	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/16/23 03:16	1
Naphthalene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
n-Heptane	**0.50**	**J**	1.0	0.40	ug/L			09/16/23 03:16	1
n-Hexane	ND		1.0	0.46	ug/L			09/16/23 03:16	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/16/23 03:16	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
o-Xylene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Propionitrile	ND	F1	20	8.5	ug/L			09/16/23 03:16	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Styrene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/16/23 03:16	1
t-Butyl alcohol	**16**	**J**	20	6.0	ug/L			09/16/23 03:16	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Tetrachloroethene	**0.89**	**J**	1.0	0.30	ug/L			09/16/23 03:16	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/16/23 03:16	1
Toluene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/16/23 03:16	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/16/23 03:16	1
Trichloroethene	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/16/23 03:16	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/16/23 03:16	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/16/23 03:16	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/16/23 03:16	1
Acrolein	ND	cn	10	3.0	ug/L			09/16/23 03:16	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			09/16/23 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*09/16/23 03:16*	*1*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*09/16/23 03:16*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*09/16/23 03:16*	*1*

Client Sample ID: Outfall-01A
Lab Sample ID: 410-142423-1
Date Collected: 09/12/23 11:22
Matrix: Groundwater
Date Received: 09/12/23 20:40

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*60 - 140*		*09/16/23 03:16*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**1.6**		1.0	0.20	ug/L			09/18/23 14:10	1
Acetone	ND	*+	20	0.70	ug/L			09/18/23 14:10	1
2-Butanone	ND		10	0.50	ug/L			09/18/23 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*09/18/23 14:10*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/18/23 14:10*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/18/23 14:10*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/18/23 14:10*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
1,4-Dioxane	ND		5.0	2.0	ug/L		09/14/23 15:25	09/15/23 01:26	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		09/14/23 15:25	09/15/23 01:26	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		09/14/23 15:25	09/15/23 01:26	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		09/14/23 15:25	09/15/23 01:26	1
2-Chlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/15/23 01:26	1
2-Methylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2-Nitroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
2-Nitrophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
3,3'-Dichlorobenzidine	ND		5.0	0.81	ug/L		09/14/23 15:25	09/15/23 01:26	1
3-Nitroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		09/14/23 15:25	09/15/23 01:26	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
4-Chloroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Client Sample ID: Outfall-01A
Date Collected: 09/12/23 11:22
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-1
Matrix: Groundwater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
4-Nitroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
4-Nitrophenol	ND		5.0	0.91	ug/L		09/14/23 15:25	09/15/23 01:26	1
Acenaphthene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/15/23 01:26	1
Acenaphthylene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/15/23 01:26	1
Acetophenone	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Aniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Anthracene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/15/23 01:26	1
a-Terpineol	ND		5.0	0.61	ug/L		09/14/23 15:25	09/15/23 01:26	1
Benzidine	ND		61	6.1	ug/L		09/14/23 15:25	09/15/23 01:26	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/15/23 01:26	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/15/23 01:26	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/15/23 01:26	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		09/14/23 15:25	09/15/23 01:26	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/15/23 01:26	1
Benzoic acid	ND	cn	30	4.0	ug/L		09/14/23 15:25	09/15/23 01:26	1
Benzyl alcohol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		09/14/23 15:25	09/15/23 01:26	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		09/14/23 15:25	09/15/23 01:26	1
Carbazole	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Chrysene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/15/23 01:26	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		09/14/23 15:25	09/15/23 01:26	1
Dibenzofuran	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Diethylphthalate	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Dimethylphthalate	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		09/14/23 15:25	09/15/23 01:26	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Diphenyl ether	ND		5.0	0.76	ug/L		09/14/23 15:25	09/15/23 01:26	1
Fluoranthene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/15/23 01:26	1
Fluorene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/15/23 01:26	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		09/14/23 15:25	09/15/23 01:26	1
Hexachloroethane	ND		2.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		09/14/23 15:25	09/15/23 01:26	1
Isophorone	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Naphthalene	ND		2.0	0.30	ug/L		09/14/23 15:25	09/15/23 01:26	1
n-Decane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
n-Docosane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
n-Eicosane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
n-Hexadecane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Nitrobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1

Client Sample ID: Outfall-01A
Date Collected: 09/12/23 11:22
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-1
Matrix: Groundwater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
n-Octadecane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
n-Tetradecane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
o-Toluidine	ND		5.0	1.0	ug/L		09/14/23 15:25	09/15/23 01:26	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Pentachlorophenol	ND		5.0	0.81	ug/L		09/14/23 15:25	09/15/23 01:26	1
Phenanthrene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/15/23 01:26	1
Phenol	ND		1.0	0.50	ug/L		09/14/23 15:25	09/15/23 01:26	1
Pyrene	**0.65**	**J**	5.0	0.25	ug/L		09/14/23 15:25	09/15/23 01:26	1
Pyridine	ND		10	0.81	ug/L		09/14/23 15:25	09/15/23 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*38*		*10 - 150*	*09/14/23 15:25*	*09/15/23 01:26*	*1*
2-Fluorobiphenyl (Surr)	*75*		*32 - 115*	*09/14/23 15:25*	*09/15/23 01:26*	*1*
2-Fluorophenol (Surr)	*30*		*10 - 83*	*09/14/23 15:25*	*09/15/23 01:26*	*1*
Nitrobenzene-d5 (Surr)	*74*		*41 - 121*	*09/14/23 15:25*	*09/15/23 01:26*	*1*
Phenol-d5 (Surr)	*32*		*10 - 63*	*09/14/23 15:25*	*09/15/23 01:26*	*1*
p-Terphenyl-d14 (Surr)	*80*		*28 - 134*	*09/14/23 15:25*	*09/15/23 01:26*	*1*

Method: RSK-175 - Dissolved Gases (GC) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		09/21/23 12:07	09/21/23 15:48	1
Ethene (1C)	ND		5.0	1.0	ug/L		09/21/23 12:07	09/21/23 15:48	1
Methane (1C)	ND		5.0	3.0	ug/L		09/21/23 12:07	09/21/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*43*		*43 - 133*	*09/21/23 12:07*	*09/21/23 15:48*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**160**		75	25	mg/L			09/15/23 14:51	50
Chloride	**1100**		380	150	mg/L			09/16/23 12:10	250

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		09/14/23 00:53	09/17/23 17:22	1
Aluminum	ND		30	12	ug/L		09/14/23 00:53	09/17/23 17:22	1
Arsenic	**1.4**	**J**	2.0	0.68	ug/L		09/14/23 00:53	09/17/23 17:22	1
Barium	**320**		2.0	0.75	ug/L		09/14/23 00:53	09/17/23 17:22	1
Beryllium	ND		0.50	0.12	ug/L		09/14/23 00:53	09/17/23 17:22	1
Cadmium	ND		0.50	0.15	ug/L		09/14/23 00:53	09/17/23 17:22	1
Calcium	**160000**		12000	5000	ug/L		09/14/23 00:53	09/17/23 19:28	100
Chromium	ND		2.0	0.55	ug/L		09/14/23 00:53	09/17/23 17:22	1
Cobalt	**1.4**		0.50	0.16	ug/L		09/14/23 00:53	09/17/23 17:22	1
Copper	ND		1.0	0.36	ug/L		09/14/23 00:53	09/17/23 17:22	1
Iron	**370**		50	20	ug/L		09/14/23 00:53	09/17/23 17:22	1
Lead	ND		0.50	0.12	ug/L		09/14/23 00:53	09/17/23 17:22	1
Magnesium	**92000**		5000	1600	ug/L		09/14/23 00:53	09/17/23 19:28	100
Manganese	**2800**	**^2**	2.0	0.95	ug/L		09/14/23 00:53	09/17/23 17:22	1
Nickel	**1.6**		1.0	0.40	ug/L		09/14/23 00:53	09/17/23 17:22	1
Potassium	**21000**		200	65	ug/L		09/14/23 00:53	09/17/23 17:22	1

Client Sample ID: Outfall-01A
Date Collected: 09/12/23 11:22
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-1
Matrix: Groundwater

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		1.0	0.28	ug/L		09/14/23 00:53	09/17/23 17:22	1
Silver	ND		0.50	0.10	ug/L		09/14/23 00:53	09/17/23 17:22	1
Sodium	**530000**		20000	9000	ug/L		09/14/23 00:53	09/17/23 19:28	100
Thallium	ND		0.50	0.13	ug/L		09/14/23 00:53	09/17/23 17:22	1
Vanadium	ND		4.0	0.79	ug/L		09/14/23 00:53	09/17/23 17:22	1
Zinc	**5.0**	**J**	10	4.0	ug/L		09/14/23 00:53	09/17/23 17:22	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		09/14/23 02:51	09/15/23 20:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	ND		5.2	1.5	mg/L			09/15/23 19:03	1
Turbidity (EPA 180.1)	**2.8**		1.0	1.0	NTU			09/13/23 17:48	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**390**		8.0	2.6	mg/L			09/15/23 14:07	1
Total Hardness (SM 2340C-2011)	**310**		100	30	mg/L			09/19/23 15:30	10
Specific Conductance (SM 2510B-2011)	**3900**		5.0	1.7	umhos/cm			09/14/23 01:33	1
Total Dissolved Solids (SM 2540C - 2015)	**1300**		240	96	mg/L			09/13/23 16:47	1
Total Suspended Solids (SM 2540D-2015)	**1.5**	**J**	3.0	1.0	mg/L			09/13/23 08:25	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			09/13/23 17:20	1
Total Kjeldahl Nitrogen (EPA 351.2)	**1.9**		1.0	0.50	mg/L		09/14/23 15:30	09/15/23 10:37	1
Nitrate as N (EPA 353.2)	**0.11**		0.10	0.040	mg/L			09/13/23 14:25	1
Total Phosphorus as PO4 (EPA 365.1)	**0.55**		0.31	0.25	mg/L		09/14/23 20:30	09/15/23 12:25	1
Chemical Oxygen Demand (EPA 410.4)	**43**	**J**	75	25	mg/L			09/19/23 08:01	1
Phenols, Total (EPA 420.4)	ND		0.020	0.010	mg/L			09/13/23 12:49	1
pH (SM 4500 H+ B-2011)	**8.2**	**HF**	0.01	0.01	S.U.			09/15/23 14:07	1
Temperature (SM 4500 H+ B-2011)	**23.2**	**HF**	0.01	0.01	Degrees C			09/15/23 14:07	1
Biochemical Oxygen Demand (SM 5210 B-2016)	ND		2.0	2.0	mg/L			09/13/23 21:35	1
Total Organic Carbon (SW846 9060A)	**6800**		1000	500	ug/L			09/14/23 19:22	1
TOC Result 1 (SW846 9060A)	**6600**		1000	500	ug/L			09/14/23 19:22	1
TOC Result 2 (SW846 9060A)	**6800**		1000	500	ug/L			09/14/23 19:22	1
TOC Result 3 (SW846 9060A)	**6900**		1000	500	ug/L			09/14/23 19:22	1
TOC Result 4 (SW846 9060A)	**6800**		1000	500	ug/L			09/14/23 19:22	1
Langelier Index (SM 2330B)	**0.47**				LangSU			09/13/23 05:23	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Client Sample ID: Outfall-001
Date Collected: 09/12/23 10:12
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-2
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/16/23 03:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/16/23 03:39	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/16/23 03:39	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/16/23 03:39	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/16/23 03:39	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/16/23 03:39	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/16/23 03:39	1
1,2-Dichloroethene (total)	**1.2**		1.0	0.20	ug/L			09/16/23 03:39	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/16/23 03:39	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
1,4-Dioxane	ND		100	82	ug/L			09/16/23 03:39	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/16/23 03:39	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/16/23 03:39	1
2-Chloroethyl vinyl ether	ND	cn	1.0	0.50	ug/L			09/16/23 03:39	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/16/23 03:39	1
2-Hexanone	ND		2.0	0.50	ug/L			09/16/23 03:39	1
2-Propanol	ND		20	8.0	ug/L			09/16/23 03:39	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/16/23 03:39	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/16/23 03:39	1
Acetonitrile	ND		50	14	ug/L			09/16/23 03:39	1
Benzene	ND		1.0	0.25	ug/L			09/16/23 03:39	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/16/23 03:39	1
Bromobenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/16/23 03:39	1
Bromoform	ND		1.0	0.30	ug/L			09/16/23 03:39	1
Bromomethane	ND		1.0	0.44	ug/L			09/16/23 03:39	1
Butyl acetate	ND		5.0	0.60	ug/L			09/16/23 03:39	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/16/23 03:39	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/16/23 03:39	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Chloroethane	ND		1.0	0.44	ug/L			09/16/23 03:39	1
Chloroform	ND		1.0	0.30	ug/L			09/16/23 03:39	1
Chloromethane	ND		1.0	0.64	ug/L			09/16/23 03:39	1
cis-1,2-Dichloroethene	**1.2**		1.0	0.20	ug/L			09/16/23 03:39	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Cyclohexane	ND		1.0	0.30	ug/L			09/16/23 03:39	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Dibromomethane	ND		1.0	0.20	ug/L			09/16/23 03:39	1

Client Sample ID: Outfall-001
Date Collected: 09/12/23 10:12
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-2
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/16/23 03:39	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/16/23 03:39	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/16/23 03:39	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/16/23 03:39	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/16/23 03:39	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Freon 113	ND		1.0	0.30	ug/L			09/16/23 03:39	1
Freon 123a	ND		1.0	0.44	ug/L			09/16/23 03:39	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Isobutyl alcohol	ND		50	12	ug/L			09/16/23 03:39	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/16/23 03:39	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/16/23 03:39	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/16/23 03:39	1
Methacrylonitrile	ND		10	2.0	ug/L			09/16/23 03:39	1
Methyl iodide	ND		1.0	0.30	ug/L			09/16/23 03:39	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/16/23 03:39	1
Naphthalene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
n-Heptane	ND		1.0	0.40	ug/L			09/16/23 03:39	1
n-Hexane	ND		1.0	0.46	ug/L			09/16/23 03:39	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/16/23 03:39	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
o-Xylene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Propionitrile	ND		20	8.5	ug/L			09/16/23 03:39	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Styrene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/16/23 03:39	1
t-Butyl alcohol	**28**		20	6.0	ug/L			09/16/23 03:39	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Tetrachloroethene	**1.1**		1.0	0.30	ug/L			09/16/23 03:39	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/16/23 03:39	1
Toluene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/16/23 03:39	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/16/23 03:39	1
Trichloroethene	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/16/23 03:39	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/16/23 03:39	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/16/23 03:39	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/16/23 03:39	1
Acrolein	ND	cn	10	3.0	ug/L			09/16/23 03:39	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			09/16/23 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*09/16/23 03:39*	*1*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*09/16/23 03:39*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*09/16/23 03:39*	*1*

Client Sample ID: Outfall-001
Date Collected: 09/12/23 10:12
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-2
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*60 - 140*		*09/16/23 03:39*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**1.5**		1.0	0.20	ug/L			09/18/23 14:30	1
Acetone	ND	*+	20	0.70	ug/L			09/18/23 14:30	1
2-Butanone	ND		10	0.50	ug/L			09/18/23 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/18/23 14:30*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/18/23 14:30*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/18/23 14:30*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/18/23 14:30*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
1,2,4,5-Tetrachlorobenzene	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
1,2-Dichlorobenzene	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
1,2-Diphenylhydrazine	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
1,3-Dichlorobenzene	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
1,4-Dichlorobenzene	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
1,4-Dioxane	ND		5.1	2.0	ug/L		09/14/23 15:25	09/15/23 01:48	1
1-Methylnaphthalene	ND		5.1	0.35	ug/L		09/14/23 15:25	09/15/23 01:48	1
1-Methylphenanthrene	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2,2'-oxybis[1-chloropropane]	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2,3,4,6-Tetrachlorophenol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2,3-Dichloroaniline	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2,4,5-Trichlorophenol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2,4,6-Trichlorophenol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2,4-Dichlorophenol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2,4-Dimethylphenol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		09/14/23 15:25	09/15/23 01:48	1
2,4-Dinitrotoluene	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2,6-Dichlorophenol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2,6-Dinitrotoluene	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2-Chloronaphthalene	ND		5.1	1.0	ug/L		09/14/23 15:25	09/15/23 01:48	1
2-Chlorophenol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2-Methylnaphthalene	ND		5.1	0.20	ug/L		09/14/23 15:25	09/15/23 01:48	1
2-Methylphenol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2-Nitroaniline	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
2-Nitrophenol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
3,3'-Dichlorobenzidine	ND		5.1	0.81	ug/L		09/14/23 15:25	09/15/23 01:48	1
3-Nitroaniline	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		09/14/23 15:25	09/15/23 01:48	1
4-Bromophenyl-phenylether	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
4-Chloro-3-methylphenol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
4-Chloroaniline	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
4-Chlorophenyl-phenylether	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Client Sample ID: Outfall-001
Date Collected: 09/12/23 10:12
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-2
Matrix: Groundwater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
4-Nitroaniline	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
4-Nitrophenol	ND		5.1	0.91	ug/L		09/14/23 15:25	09/15/23 01:48	1
Acenaphthene	ND		5.1	0.25	ug/L		09/14/23 15:25	09/15/23 01:48	1
Acenaphthylene	ND		5.1	0.20	ug/L		09/14/23 15:25	09/15/23 01:48	1
Acetophenone	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Aniline	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Anthracene	ND		5.1	0.25	ug/L		09/14/23 15:25	09/15/23 01:48	1
a-Terpineol	ND		5.1	0.61	ug/L		09/14/23 15:25	09/15/23 01:48	1
Benzidine	ND		61	6.1	ug/L		09/14/23 15:25	09/15/23 01:48	1
Benzo[a]anthracene	ND		5.1	0.25	ug/L		09/14/23 15:25	09/15/23 01:48	1
Benzo[a]pyrene	ND		5.1	0.25	ug/L		09/14/23 15:25	09/15/23 01:48	1
Benzo[b]fluoranthene	ND		5.1	0.25	ug/L		09/14/23 15:25	09/15/23 01:48	1
Benzo[g,h,i]perylene	ND		5.1	0.30	ug/L		09/14/23 15:25	09/15/23 01:48	1
Benzo[k]fluoranthene	ND		5.1	0.20	ug/L		09/14/23 15:25	09/15/23 01:48	1
Benzoic acid	ND	cn	30	4.0	ug/L		09/14/23 15:25	09/15/23 01:48	1
Benzyl alcohol	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Bis(2-chloroethoxy)methane	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Bis(2-chloroethyl)ether	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Bis(2-ethylhexyl) phthalate	ND		5.1	1.0	ug/L		09/14/23 15:25	09/15/23 01:48	1
Butylbenzylphthalate	ND		5.1	1.0	ug/L		09/14/23 15:25	09/15/23 01:48	1
Carbazole	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Chrysene	ND		5.1	0.20	ug/L		09/14/23 15:25	09/15/23 01:48	1
Dibenz(a,h)anthracene	ND		5.1	0.30	ug/L		09/14/23 15:25	09/15/23 01:48	1
Dibenzofuran	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Diethylphthalate	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Dimethylphthalate	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Di-n-butyl phthalate	ND		5.1	1.0	ug/L		09/14/23 15:25	09/15/23 01:48	1
Di-n-octyl phthalate	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Diphenyl ether	ND		5.1	0.76	ug/L		09/14/23 15:25	09/15/23 01:48	1
Fluoranthene	ND		5.1	0.20	ug/L		09/14/23 15:25	09/15/23 01:48	1
Fluorene	ND		5.1	0.20	ug/L		09/14/23 15:25	09/15/23 01:48	1
Hexachlorobenzene	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Hexachlorobutadiene	ND		2.0	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		09/14/23 15:25	09/15/23 01:48	1
Hexachloroethane	ND		2.0	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Indeno[1,2,3-cd]pyrene	ND		5.1	0.30	ug/L		09/14/23 15:25	09/15/23 01:48	1
Isophorone	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Naphthalene	ND		2.0	0.30	ug/L		09/14/23 15:25	09/15/23 01:48	1
n-Decane	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
n-Docosane	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
n-Eicosane	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
n-Hexadecane	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Nitrobenzene	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
N-Nitrosodiethylamine	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
N-Nitrosodimethylamine	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
N-Nitrosodi-n-butylamine	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
N-Nitrosodi-n-propylamine	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
N-Nitrosodiphenylamine	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1

Client Sample ID: Outfall-001
Date Collected: 09/12/23 10:12
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-2
Matrix: Groundwater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
n-Octadecane	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
n-Tetradecane	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
o-Toluidine	ND		5.1	1.0	ug/L		09/14/23 15:25	09/15/23 01:48	1
Pentachlorobenzene	ND		5.1	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Pentachlorophenol	ND		5.1	0.81	ug/L		09/14/23 15:25	09/15/23 01:48	1
Phenanthrene	ND		5.1	0.20	ug/L		09/14/23 15:25	09/15/23 01:48	1
Phenol	ND		1.0	0.51	ug/L		09/14/23 15:25	09/15/23 01:48	1
Pyrene	**0.61**	**J**	5.1	0.25	ug/L		09/14/23 15:25	09/15/23 01:48	1
Pyridine	ND		10	0.81	ug/L		09/14/23 15:25	09/15/23 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*31*		*10 - 150*	*09/14/23 15:25*	*09/15/23 01:48*	*1*
2-Fluorobiphenyl (Surr)	*76*		*32 - 115*	*09/14/23 15:25*	*09/15/23 01:48*	*1*
2-Fluorophenol (Surr)	*22*		*10 - 83*	*09/14/23 15:25*	*09/15/23 01:48*	*1*
Nitrobenzene-d5 (Surr)	*71*		*41 - 121*	*09/14/23 15:25*	*09/15/23 01:48*	*1*
Phenol-d5 (Surr)	*22*		*10 - 63*	*09/14/23 15:25*	*09/15/23 01:48*	*1*
p-Terphenyl-d14 (Surr)	*79*		*28 - 134*	*09/14/23 15:25*	*09/15/23 01:48*	*1*

Method: RSK-175 - Dissolved Gases (GC) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		09/21/23 12:07	09/21/23 16:05	1
Ethene (1C)	ND		5.0	1.0	ug/L		09/21/23 12:07	09/21/23 16:05	1
Methane (1C)	**20**		5.0	3.0	ug/L		09/21/23 12:07	09/21/23 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*43*		*43 - 133*	*09/21/23 12:07*	*09/21/23 16:05*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**170**		38	13	mg/L			09/16/23 01:45	25
Chloride	**980**		380	150	mg/L			09/16/23 01:58	250

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		09/14/23 00:53	09/17/23 17:24	1
Aluminum	ND		30	12	ug/L		09/14/23 00:53	09/17/23 17:24	1
Arsenic	**1.7**	**J**	2.0	0.68	ug/L		09/14/23 00:53	09/17/23 17:24	1
Barium	**320**		2.0	0.75	ug/L		09/14/23 00:53	09/17/23 17:24	1
Beryllium	ND		0.50	0.12	ug/L		09/14/23 00:53	09/17/23 17:24	1
Cadmium	ND		0.50	0.15	ug/L		09/14/23 00:53	09/17/23 17:24	1
Calcium	**160000**		12000	5000	ug/L		09/14/23 00:53	09/17/23 19:30	100
Chromium	ND		2.0	0.55	ug/L		09/14/23 00:53	09/17/23 17:24	1
Cobalt	**1.4**		0.50	0.16	ug/L		09/14/23 00:53	09/17/23 17:24	1
Copper	ND		1.0	0.36	ug/L		09/14/23 00:53	09/17/23 17:24	1
Iron	**380**		50	20	ug/L		09/14/23 00:53	09/17/23 17:24	1
Lead	ND		0.50	0.12	ug/L		09/14/23 00:53	09/17/23 17:24	1
Magnesium	**90000**		5000	1600	ug/L		09/14/23 00:53	09/17/23 19:30	100
Manganese	**2700**	**^2**	2.0	0.95	ug/L		09/14/23 00:53	09/17/23 17:24	1
Nickel	**1.6**		1.0	0.40	ug/L		09/14/23 00:53	09/17/23 17:24	1
Potassium	**21000**		200	65	ug/L		09/14/23 00:53	09/17/23 17:24	1

Client Sample ID: Outfall-001
Date Collected: 09/12/23 10:12
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-2
Matrix: Groundwater

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		1.0	0.28	ug/L		09/14/23 00:53	09/17/23 17:24	1
Silver	ND		0.50	0.10	ug/L		09/14/23 00:53	09/17/23 17:24	1
Sodium	**510000**		20000	9000	ug/L		09/14/23 00:53	09/17/23 19:30	100
Thallium	ND		0.50	0.13	ug/L		09/14/23 00:53	09/17/23 17:24	1
Vanadium	ND		4.0	0.79	ug/L		09/14/23 00:53	09/17/23 17:24	1
Zinc	ND		10	4.0	ug/L		09/14/23 00:53	09/17/23 17:24	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		09/14/23 02:51	09/15/23 20:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	**1.7**	**J**	5.4	1.5	mg/L			09/15/23 19:03	1
Turbidity (EPA 180.1)	**3.3**		1.0	1.0	NTU			09/13/23 19:00	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**390**		8.0	2.6	mg/L			09/15/23 14:14	1
Total Hardness (SM 2340C-2011)	**630**		250	75	mg/L			09/19/23 17:10	25
Specific Conductance (SM 2510B-2011)	**3900**		5.0	1.7	umhos/cm			09/14/23 01:36	1
Total Dissolved Solids (SM 2540C - 2015)	**1300**		240	96	mg/L			09/13/23 16:47	1
Total Suspended Solids (SM 2540D-2015)	**1.7**	**J**	3.0	1.0	mg/L			09/13/23 08:25	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			09/13/23 17:20	1
Total Kjeldahl Nitrogen (EPA 351.2)	**1.6**		1.0	0.50	mg/L		09/14/23 15:30	09/15/23 10:31	1
Nitrate as N (EPA 353.2)	**0.15**		0.10	0.040	mg/L			09/13/23 14:25	1
Total Phosphorus as PO4 (EPA 365.1)	**0.54**		0.31	0.25	mg/L		09/14/23 20:30	09/15/23 12:25	1
Chemical Oxygen Demand (EPA 410.4)	**53**	**J**	75	25	mg/L			09/19/23 08:01	1
Phenols, Total (EPA 420.4)	ND		0.020	0.010	mg/L			09/13/23 12:52	1
pH (SM 4500 H+ B-2011)	**8.2**	**HF**	0.01	0.01	S.U.			09/15/23 14:14	1
Temperature (SM 4500 H+ B-2011)	**23.0**	**HF**	0.01	0.01	Degrees C			09/15/23 14:14	1
Biochemical Oxygen Demand (SM 5210 B-2016)	ND		2.0	2.0	mg/L			09/13/23 21:35	1
Total Organic Carbon (SW846 9060A)	**6600**		1000	500	ug/L			09/14/23 21:15	1
TOC Result 1 (SW846 9060A)	**6400**		1000	500	ug/L			09/14/23 21:15	1
TOC Result 2 (SW846 9060A)	**6300**		1000	500	ug/L			09/14/23 21:15	1
TOC Result 3 (SW846 9060A)	**6800**		1000	500	ug/L			09/14/23 21:15	1
TOC Result 4 (SW846 9060A)	**6900**		1000	500	ug/L			09/14/23 21:15	1
Langelier Index (SM 2330B)	**0.49**				LangSU			09/13/23 05:23	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Client Sample ID: QAQC_TB
Date Collected: 09/06/23 00:00
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-3
Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/16/23 02:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/16/23 02:54	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/16/23 02:54	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/16/23 02:54	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/16/23 02:54	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/16/23 02:54	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/16/23 02:54	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/16/23 02:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
1,4-Dioxane	ND		100	82	ug/L			09/16/23 02:54	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/16/23 02:54	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/16/23 02:54	1
2-Chloroethyl vinyl ether	ND	cn	1.0	0.50	ug/L			09/16/23 02:54	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/16/23 02:54	1
2-Hexanone	ND		2.0	0.50	ug/L			09/16/23 02:54	1
2-Propanol	ND		20	8.0	ug/L			09/16/23 02:54	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/16/23 02:54	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/16/23 02:54	1
Acetonitrile	ND		50	14	ug/L			09/16/23 02:54	1
Benzene	ND		1.0	0.25	ug/L			09/16/23 02:54	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/16/23 02:54	1
Bromobenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/16/23 02:54	1
Bromoform	ND		1.0	0.30	ug/L			09/16/23 02:54	1
Bromomethane	ND		1.0	0.44	ug/L			09/16/23 02:54	1
Butyl acetate	ND		5.0	0.60	ug/L			09/16/23 02:54	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/16/23 02:54	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/16/23 02:54	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Chloroethane	ND		1.0	0.44	ug/L			09/16/23 02:54	1
Chloroform	ND		1.0	0.30	ug/L			09/16/23 02:54	1
Chloromethane	ND		1.0	0.64	ug/L			09/16/23 02:54	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Cyclohexane	ND		1.0	0.30	ug/L			09/16/23 02:54	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Dibromomethane	ND		1.0	0.20	ug/L			09/16/23 02:54	1

Client Sample ID: QAQC_TB
Date Collected: 09/06/23 00:00
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-3
Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/16/23 02:54	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/16/23 02:54	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/16/23 02:54	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/16/23 02:54	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/16/23 02:54	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Freon 113	ND		1.0	0.30	ug/L			09/16/23 02:54	1
Freon 123a	ND		1.0	0.44	ug/L			09/16/23 02:54	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Isobutyl alcohol	ND		50	12	ug/L			09/16/23 02:54	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/16/23 02:54	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/16/23 02:54	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/16/23 02:54	1
Methacrylonitrile	ND		10	2.0	ug/L			09/16/23 02:54	1
Methyl iodide	ND		1.0	0.30	ug/L			09/16/23 02:54	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/16/23 02:54	1
Naphthalene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
n-Heptane	ND		1.0	0.40	ug/L			09/16/23 02:54	1
n-Hexane	ND		1.0	0.46	ug/L			09/16/23 02:54	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/16/23 02:54	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
o-Xylene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Propionitrile	ND		20	8.5	ug/L			09/16/23 02:54	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Styrene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/16/23 02:54	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/16/23 02:54	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Tetrachloroethene	ND		1.0	0.30	ug/L			09/16/23 02:54	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/16/23 02:54	1
Toluene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/16/23 02:54	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/16/23 02:54	1
Trichloroethene	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/16/23 02:54	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/16/23 02:54	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/16/23 02:54	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/16/23 02:54	1
Acrolein	ND	cn	10	3.0	ug/L			09/16/23 02:54	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			09/16/23 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*09/16/23 02:54*	*1*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*09/16/23 02:54*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*		*09/16/23 02:54*	*1*

Client Sample ID: QAQC_TB
Date Collected: 09/06/23 00:00
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-3
Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*60 - 140*		*09/16/23 02:54*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/18/23 12:12	1
Acetone	ND	*+	20	0.70	ug/L			09/18/23 12:12	1
2-Butanone	ND		10	0.50	ug/L			09/18/23 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/18/23 12:12*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*09/18/23 12:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/18/23 12:12*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/18/23 12:12*	*1*

Action Limit Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142423-1
Project/Site: EMGPRP-31097

Client Sample ID: Outfall-01A
Lab Sample ID: 410-142423-1

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	ND		mg/L	5	5.2	1664A	Total/NA

Client Sample ID: Outfall-001
Lab Sample ID: 410-142423-2

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	1.7	J	mg/L	5	5.4	1664A	Total/NA

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-142423-1	Outfall-01A	103	107	101	104
410-142423-1 MS	Outfall-01A	107	109	101	106
410-142423-1 MSD	Outfall-01A	106	108	99	107
410-142423-2	Outfall-001	105	105	103	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-142423-3	QAQC_TB	106	106	104	105
LCS 410-420179/1003	Lab Control Sample	96	112	93	104
LCS 410-420179/1004	Lab Control Sample	98	110	96	97
MB 410-420179/6	Method Blank	102	110	101	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-142423-1	Outfall-01A	103	107	103	93
410-142423-2	Outfall-001	97	106	98	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-142423-3	QAQC_TB	101	110	100	94
LCS 410-420518/4	Lab Control Sample	104	102	106	98
MB 410-420518/6	Method Blank	103	108	98	90

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)
410-142423-1	Outfall-01A	38	75	30	74	32	80
410-142423-2	Outfall-001	31	76	22	71	22	79

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)
LCS 410-419582/2-A	Lab Control Sample	80	78	51	79	38	97
LCS 410-419582/4-A	Lab Control Sample	79	78	46	76	34	92
LCSD 410-419582/3-A	Lab Control Sample Dup	86	78	46	74	36	99
LCSD 410-419582/5-A	Lab Control Sample Dup	71	77	52	76	40	91
MB 410-419582/1-A	Method Blank	67	78	41	78	29	105

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		Propene1
Lab Sample ID	Client Sample ID	(43-133)
410-142423-1 - RA	Outfall-01A	43
410-142423-2 - RA	Outfall-001	43

Surrogate Legend

Propene = Propene

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142423-1
Project/Site: EMGPRP-31097

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		Propene1								
Lab Sample ID	Client Sample ID	(43-133)								
LCS 410-422203/2-A	Lab Control Sample	94								
MB 410-422203/1-A	Method Blank	90								

Surrogate Legend

Propene = Propene

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-420179/6
Matrix: Water
Analysis Batch: 420179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/16/23 00:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/16/23 00:44	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/16/23 00:44	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/16/23 00:44	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/16/23 00:44	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/16/23 00:44	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/16/23 00:44	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/16/23 00:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
1,4-Dioxane	ND		100	82	ug/L			09/16/23 00:44	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/16/23 00:44	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/16/23 00:44	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			09/16/23 00:44	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/16/23 00:44	1
2-Hexanone	ND		2.0	0.50	ug/L			09/16/23 00:44	1
2-Propanol	ND		20	8.0	ug/L			09/16/23 00:44	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/16/23 00:44	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/16/23 00:44	1
Acetonitrile	ND		50	14	ug/L			09/16/23 00:44	1
Benzene	ND		1.0	0.25	ug/L			09/16/23 00:44	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/16/23 00:44	1
Bromobenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/16/23 00:44	1
Bromoform	ND		1.0	0.30	ug/L			09/16/23 00:44	1
Bromomethane	ND		1.0	0.44	ug/L			09/16/23 00:44	1
Butyl acetate	ND		5.0	0.60	ug/L			09/16/23 00:44	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/16/23 00:44	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/16/23 00:44	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Chloroethane	ND		1.0	0.44	ug/L			09/16/23 00:44	1
Chloroform	ND		1.0	0.30	ug/L			09/16/23 00:44	1
Chloromethane	ND		1.0	0.64	ug/L			09/16/23 00:44	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Cyclohexane	ND		1.0	0.30	ug/L			09/16/23 00:44	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/16/23 00:44	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-420179/6
Matrix: Water
Analysis Batch: 420179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/16/23 00:44	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/16/23 00:44	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/16/23 00:44	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/16/23 00:44	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/16/23 00:44	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Freon 113	ND		1.0	0.30	ug/L			09/16/23 00:44	1
Freon 123a	ND		1.0	0.44	ug/L			09/16/23 00:44	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Isobutyl alcohol	ND		50	12	ug/L			09/16/23 00:44	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/16/23 00:44	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/16/23 00:44	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/16/23 00:44	1
Methacrylonitrile	ND		10	2.0	ug/L			09/16/23 00:44	1
Methyl iodide	ND		1.0	0.30	ug/L			09/16/23 00:44	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/16/23 00:44	1
Naphthalene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
n-Heptane	ND		1.0	0.40	ug/L			09/16/23 00:44	1
n-Hexane	ND		1.0	0.46	ug/L			09/16/23 00:44	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/16/23 00:44	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
o-Xylene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Propionitrile	ND		20	8.5	ug/L			09/16/23 00:44	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Styrene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/16/23 00:44	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/16/23 00:44	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Tetrachloroethene	ND		1.0	0.30	ug/L			09/16/23 00:44	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/16/23 00:44	1
Toluene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/16/23 00:44	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/16/23 00:44	1
Trichloroethene	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/16/23 00:44	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/16/23 00:44	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/16/23 00:44	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/16/23 00:44	1
Acrolein	ND		10	3.0	ug/L			09/16/23 00:44	1
Acrylonitrile	ND		3.0	1.1	ug/L			09/16/23 00:44	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-420179/6
Matrix: Water
Analysis Batch: 420179

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		60 - 140		09/16/23 00:44	1
4-Bromofluorobenzene (Surr)	110		60 - 140		09/16/23 00:44	1
Dibromofluoromethane (Surr)	101		60 - 140		09/16/23 00:44	1
Toluene-d8 (Surr)	106		60 - 140		09/16/23 00:44	1

Lab Sample ID: LCS 410-420179/1003
Matrix: Water
Analysis Batch: 420179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	21.1		ug/L		105	60 - 140
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	20.0	23.1		ug/L		115	60 - 140
1,1,2-Trichloroethane	20.0	22.2		ug/L		111	70 - 130
1,1-Dichloroethane	20.0	22.2		ug/L		111	70 - 130
1,1-Dichloroethene	20.0	15.8		ug/L		79	50 - 150
1,1-Dichloropropene	20.0	21.6		ug/L		108	60 - 140
1,2,3-Trichlorobenzene	20.0	19.4		ug/L		97	60 - 140
1,2,3-Trichloropropane	20.0	22.1		ug/L		110	60 - 140
1,2,4-Trichlorobenzene	20.0	18.5		ug/L		93	60 - 140
1,2,4-Trimethylbenzene	20.0	21.4		ug/L		107	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	22.0		ug/L		110	60 - 140
1,2-Dibromoethane	20.0	22.0		ug/L		110	60 - 140
1,2-Dichlorobenzene	20.0	20.1		ug/L		100	65 - 135
1,2-Dichloroethane	20.0	21.0		ug/L		105	70 - 130
1,2-Dichloroethene (total)	40.0	34.0		ug/L		85	60 - 140
1,2-Dichloropropane	20.0	22.5		ug/L		112	35 - 165
1,3,5-Trimethylbenzene	20.0	21.5		ug/L		108	60 - 140
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	70 - 130
1,3-Dichloropropane	20.0	23.0		ug/L		115	60 - 140
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	65 - 135
1,4-Dioxane	500	538		ug/L		108	60 - 140
2,2-Dichloropropane	20.0	18.8		ug/L		94	60 - 140
2-Chloro-1,3-butadiene	20.0	21.0		ug/L		105	60 - 140
2-Chlorotoluene	20.0	21.5		ug/L		107	60 - 140
2-Hexanone	250	285		ug/L		114	60 - 140
2-Propanol	150	126		ug/L		84	60 - 140
4-Chlorotoluene	20.0	21.1		ug/L		105	60 - 140
4-Methyl-2-pentanone	250	296		ug/L		118	60 - 140
Benzene	20.0	22.3		ug/L		111	65 - 135
Benzyl chloride	20.0	20.9		ug/L		105	60 - 140
Bromobenzene	20.0	21.5		ug/L		108	60 - 140
Bromodichloromethane	20.0	22.4		ug/L		112	65 - 135
Bromoform	20.0	21.6		ug/L		108	70 - 130
Bromomethane	20.0	17.0		ug/L		85	15 - 185
Carbon disulfide	20.0	16.9		ug/L		85	60 - 140
Carbon tetrachloride	20.0	21.3		ug/L		107	70 - 130
Chlorobenzene	20.0	20.9		ug/L		104	65 - 135

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-420179/1003
Matrix: Water
Analysis Batch: 420179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	20.0	18.1		ug/L		91	40 - 160
Chloroform	20.0	20.7		ug/L		104	70 - 135
Chloromethane	20.0	17.8		ug/L		89	10 - 200
cis-1,2-Dichloroethene	20.0	17.6		ug/L		88	60 - 140
cis-1,3-Dichloropropene	20.0	21.7		ug/L		108	25 - 175
Cyclohexane	20.0	20.6		ug/L		103	60 - 140
Dibromochloromethane	20.0	22.0		ug/L		110	70 - 135
Dibromomethane	20.0	22.5		ug/L		112	60 - 140
Dichlorodifluoromethane	20.0	22.7		ug/L		113	60 - 140
Dichlorofluoromethane	20.0	15.7		ug/L		79	60 - 140
di-Isopropyl ether	20.0	21.5		ug/L		107	60 - 140
Ethyl methacrylate	20.0	21.4		ug/L		107	60 - 140
Ethyl t-butyl ether	20.0	21.6		ug/L		108	60 - 140
Ethylbenzene	20.0	21.7		ug/L		108	60 - 140
Freon 113	20.0	16.7		ug/L		84	60 - 140
Freon 123a	20.0	14.6		ug/L		73	60 - 140
Hexachlorobutadiene	20.0	16.3		ug/L		82	60 - 140
Isobutyl alcohol	500	583		ug/L		117	60 - 140
Isopropylbenzene	20.0	20.8		ug/L		104	60 - 140
m&p-Xylene	40.0	43.1		ug/L		108	60 - 140
Methacrylonitrile	150	183		ug/L		122	60 - 140
Methyl iodide	20.0	16.1		ug/L		81	60 - 140
Methyl methacrylate	20.0	22.4		ug/L		112	60 - 140
Methylene Chloride	20.0	16.0		ug/L		80	60 - 140
Naphthalene	20.0	20.2		ug/L		101	60 - 140
n-Butylbenzene	20.0	20.9		ug/L		105	60 - 140
n-Heptane	20.0	16.5		ug/L		82	60 - 140
n-Hexane	20.0	17.4		ug/L		87	60 - 140
N-Propylbenzene	20.0	22.7		ug/L		114	60 - 140
o-Xylene	20.0	21.1		ug/L		105	60 - 140
p-Isopropyltoluene	20.0	20.8		ug/L		104	60 - 140
Propionitrile	150	209		ug/L		140	60 - 140
sec-Butylbenzene	20.0	21.4		ug/L		107	60 - 140
Styrene	20.0	21.3		ug/L		107	60 - 140
t-Amyl methyl ether	20.0	21.5		ug/L		107	60 - 140
t-Butyl alcohol	200	239		ug/L		119	60 - 140
tert-Butylbenzene	20.0	21.3		ug/L		106	60 - 140
Tetrachloroethene	20.0	19.1		ug/L		95	70 - 130
Tetrahydrofuran	100	114		ug/L		114	60 - 140
Toluene	20.0	22.2		ug/L		111	70 - 130
trans-1,2-Dichloroethene	20.0	16.4		ug/L		82	70 - 130
trans-1,3-Dichloropropene	20.0	22.8		ug/L		114	50 - 150
trans-1,4-Dichloro-2-butene	100	128		ug/L		128	60 - 140
Trichloroethene	20.0	19.0		ug/L		95	65 - 135
Trichlorofluoromethane	20.0	15.9		ug/L		79	50 - 150
Vinyl chloride	20.0	16.9		ug/L		85	10 - 195
Xylenes, Total	60.0	64.2		ug/L		107	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-420179/1003
Matrix: Water
Analysis Batch: 420179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
4-Bromofluorobenzene (Surr)	112		60 - 140
Dibromofluoromethane (Surr)	93		60 - 140
Toluene-d8 (Surr)	104		60 - 140

Lab Sample ID: LCS 410-420179/1004
Matrix: Water
Analysis Batch: 420179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetonitrile			150	116		ug/L		77	60 - 140		
Butyl acetate			20.0	17.5		ug/L		87	60 - 140		
Ethyl acetate			20.0	19.6		ug/L		98	60 - 140		
Isopropyl acetate			20.0	18.9		ug/L		94	60 - 140		
n-Propyl acetate			20.0	17.8		ug/L		89	60 - 140		
Vinyl acetate			100	83.7		ug/L		84	60 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
4-Bromofluorobenzene (Surr)	110		60 - 140
Dibromofluoromethane (Surr)	96		60 - 140
Toluene-d8 (Surr)	97		60 - 140

Lab Sample ID: 410-142423-1 MS
Matrix: Groundwater
Analysis Batch: 420179

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1,2-Tetrachloroethane	ND		20.0	22.7		ug/L		113	60 - 140		
1,1,1-Trichloroethane	ND		20.0	23.5		ug/L		118	70 - 130		
1,1,2,2-Tetrachloroethane	ND		20.0	23.8		ug/L		119	60 - 140		
1,1,2-Trichloroethane	0.43	J	20.0	22.9		ug/L		112	70 - 130		
1,1-Dichloroethane	ND		20.0	24.1		ug/L		120	70 - 130		
1,1-Dichloroethene	ND		20.0	15.8		ug/L		79	50 - 150		
1,1-Dichloropropene	ND		20.0	24.6		ug/L		123	60 - 140		
1,2,3-Trichlorobenzene	ND		20.0	21.2		ug/L		106	60 - 140		
1,2,3-Trichloropropane	ND		20.0	22.3		ug/L		112	60 - 140		
1,2,4-Trichlorobenzene	ND		20.0	19.9		ug/L		99	60 - 140		
1,2,4-Trimethylbenzene	ND		20.0	23.0		ug/L		115	60 - 140		
1,2-Dibromo-3-Chloropropane	ND		20.0	22.5		ug/L		113	60 - 140		
1,2-Dibromoethane	ND		20.0	22.2		ug/L		111	60 - 140		
1,2-Dichlorobenzene	ND		20.0	21.8		ug/L		109	65 - 135		
1,2-Dichloroethane	ND		20.0	22.7		ug/L		114	70 - 130		
1,2-Dichloroethene (total)	ND		40.0	41.4		ug/L		104	60 - 140		
1,2-Dichloropropane	ND		20.0	23.7		ug/L		119	35 - 165		
1,3,5-Trimethylbenzene	ND		20.0	23.4		ug/L		117	60 - 140		
1,3-Dichlorobenzene	ND		20.0	21.1		ug/L		105	70 - 130		
1,3-Dichloropropane	ND		20.0	23.3		ug/L		117	60 - 140		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-142423-1 MS
Matrix: Groundwater
Analysis Batch: 420179

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	ND		20.0	21.9		ug/L		109	65 - 135
1,4-Dioxane	ND		500	521		ug/L		104	60 - 140
2,2-Dichloropropane	ND		20.0	23.0		ug/L		115	60 - 140
2-Chloro-1,3-butadiene	ND		20.0	24.0		ug/L		120	60 - 140
2-Chlorotoluene	ND		20.0	22.6		ug/L		113	60 - 140
2-Hexanone	1.3	J	250	291		ug/L		116	60 - 140
2-Propanol	ND		150	109		ug/L		72	60 - 140
4-Chlorotoluene	ND		20.0	22.9		ug/L		114	60 - 140
4-Methyl-2-pentanone	ND		250	310		ug/L		124	60 - 140
Benzene	ND		20.0	24.6		ug/L		123	65 - 135
Benzyl chloride	ND		20.0	21.3		ug/L		106	60 - 140
Bromobenzene	ND		20.0	22.4		ug/L		112	60 - 140
Bromodichloromethane	ND		20.0	23.7		ug/L		118	65 - 135
Bromoform	ND		20.0	22.2		ug/L		111	70 - 130
Bromomethane	ND		20.0	19.5		ug/L		97	15 - 185
Carbon disulfide	ND		20.0	17.0		ug/L		85	60 - 140
Carbon tetrachloride	ND		20.0	25.4		ug/L		127	70 - 130
Chlorobenzene	ND		20.0	22.4		ug/L		112	65 - 135
Chloroethane	ND		20.0	21.4		ug/L		107	40 - 160
Chloroform	ND		20.0	22.8		ug/L		114	70 - 135
Chloromethane	ND		20.0	26.9		ug/L		135	10 - 200
cis-1,2-Dichloroethene	ND		20.0	24.2		ug/L		121	60 - 140
cis-1,3-Dichloropropene	ND		20.0	21.5		ug/L		108	25 - 175
Cyclohexane	ND		20.0	23.3		ug/L		116	60 - 140
Dibromochloromethane	ND		20.0	23.4		ug/L		117	70 - 135
Dibromomethane	ND		20.0	23.6		ug/L		118	60 - 140
Dichlorodifluoromethane	ND	F1	20.0	30.1	F1	ug/L		151	60 - 140
Dichlorofluoromethane	ND		20.0	18.7		ug/L		93	60 - 140
di-Isopropyl ether	ND		20.0	22.3		ug/L		112	60 - 140
Ethyl methacrylate	ND		20.0	21.2		ug/L		106	60 - 140
Ethyl t-butyl ether	ND		20.0	23.3		ug/L		116	60 - 140
Ethylbenzene	ND		20.0	23.3		ug/L		116	60 - 140
Freon 113	ND		20.0	17.9		ug/L		89	60 - 140
Freon 123a	ND		20.0	14.7		ug/L		73	60 - 140
Hexachlorobutadiene	ND		20.0	19.8		ug/L		99	60 - 140
Isobutyl alcohol	ND		500	623		ug/L		125	60 - 140
Isopropylbenzene	ND		20.0	22.1		ug/L		111	60 - 140
m&p-Xylene	ND		40.0	45.9		ug/L		115	60 - 140
Methacrylonitrile	ND		150	189		ug/L		126	60 - 140
Methyl iodide	ND		20.0	16.2		ug/L		81	60 - 140
Methyl methacrylate	ND		20.0	22.4		ug/L		112	60 - 140
Methylene Chloride	ND		20.0	15.3		ug/L		76	60 - 140
Naphthalene	ND		20.0	21.0		ug/L		105	60 - 140
n-Butylbenzene	ND		20.0	22.8		ug/L		114	60 - 140
n-Heptane	0.50	J	20.0	20.5		ug/L		100	60 - 140
n-Hexane	ND		20.0	21.1		ug/L		106	60 - 140
N-Propylbenzene	ND		20.0	24.3		ug/L		122	60 - 140
o-Xylene	ND		20.0	22.1		ug/L		111	60 - 140
p-Isopropyltoluene	ND		20.0	22.7		ug/L		113	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-142423-1 MS
Matrix: Groundwater
Analysis Batch: 420179

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Propionitrile	ND	F1	150	213	F1	ug/L		142	60 - 140
sec-Butylbenzene	ND		20.0	23.1		ug/L		116	60 - 140
Styrene	ND		20.0	22.5		ug/L		113	60 - 140
t-Amyl methyl ether	ND		20.0	21.7		ug/L		108	60 - 140
t-Butyl alcohol	16	J	200	226		ug/L		105	60 - 140
tert-Butylbenzene	ND		20.0	22.7		ug/L		113	60 - 140
Tetrachloroethene	0.89	J	20.0	23.0		ug/L		111	70 - 130
Tetrahydrofuran	ND		100	119		ug/L		119	60 - 140
Toluene	ND		20.0	24.0		ug/L		120	70 - 130
trans-1,2-Dichloroethene	ND		20.0	17.2		ug/L		86	70 - 130
trans-1,3-Dichloropropene	ND		20.0	22.5		ug/L		113	50 - 150
trans-1,4-Dichloro-2-butene	ND		100	127		ug/L		127	60 - 140
Trichloroethene	ND		20.0	22.1		ug/L		110	65 - 135
Trichlorofluoromethane	ND		20.0	20.2		ug/L		101	50 - 150
Vinyl chloride	ND		20.0	25.5		ug/L		127	10 - 195
Xylenes, Total	ND		60.0	68.0		ug/L		113	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*
4-Bromofluorobenzene (Surr)	*109*		*60 - 140*
Dibromofluoromethane (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*106*		*60 - 140*

Lab Sample ID: 410-142423-1 MSD
Matrix: Groundwater
Analysis Batch: 420179

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	22.2		ug/L		111	60 - 140	2	30
1,1,1-Trichloroethane	ND		20.0	22.4		ug/L		112	70 - 130	5	30
1,1,2,2-Tetrachloroethane	ND		20.0	22.8		ug/L		114	60 - 140	4	30
1,1,2-Trichloroethane	0.43	J	20.0	21.7		ug/L		106	70 - 130	5	30
1,1-Dichloroethane	ND		20.0	22.9		ug/L		114	70 - 130	5	30
1,1-Dichloroethene	ND		20.0	17.8		ug/L		89	50 - 150	12	30
1,1-Dichloropropene	ND		20.0	23.9		ug/L		119	60 - 140	3	30
1,2,3-Trichlorobenzene	ND		20.0	19.3		ug/L		96	60 - 140	9	30
1,2,3-Trichloropropane	ND		20.0	22.3		ug/L		112	60 - 140	0	30
1,2,4-Trichlorobenzene	ND		20.0	18.8		ug/L		94	60 - 140	6	30
1,2,4-Trimethylbenzene	ND		20.0	21.6		ug/L		108	60 - 140	6	30
1,2-Dibromo-3-Chloropropane	ND		20.0	21.7		ug/L		109	60 - 140	4	30
1,2-Dibromoethane	ND		20.0	21.0		ug/L		105	60 - 140	5	30
1,2-Dichlorobenzene	ND		20.0	20.4		ug/L		102	65 - 135	7	30
1,2-Dichloroethane	ND		20.0	21.9		ug/L		110	70 - 130	3	30
1,2-Dichloroethene (total)	ND		40.0	39.3		ug/L		98	60 - 140	5	30
1,2-Dichloropropane	ND		20.0	22.3		ug/L		112	35 - 165	6	30
1,3,5-Trimethylbenzene	ND		20.0	21.9		ug/L		110	60 - 140	7	30
1,3-Dichlorobenzene	ND		20.0	20.3		ug/L		102	70 - 130	3	30
1,3-Dichloropropane	ND		20.0	22.4		ug/L		112	60 - 140	4	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-142423-1 MSD
Matrix: Groundwater
Analysis Batch: 420179

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		20.0	21.3		ug/L		107	65 - 135	3	30
1,4-Dioxane	ND		500	521		ug/L		104	60 - 140	0	30
2,2-Dichloropropane	ND		20.0	21.6		ug/L		108	60 - 140	7	30
2-Chloro-1,3-butadiene	ND		20.0	22.8		ug/L		114	60 - 140	5	30
2-Chlorotoluene	ND		20.0	22.1		ug/L		110	60 - 140	2	30
2-Hexanone	1.3	J	250	285		ug/L		114	60 - 140	2	30
2-Propanol	ND		150	106		ug/L		71	60 - 140	2	30
4-Chlorotoluene	ND		20.0	22.3		ug/L		112	60 - 140	3	30
4-Methyl-2-pentanone	ND		250	294		ug/L		118	60 - 140	5	30
Benzene	ND		20.0	23.4		ug/L		117	65 - 135	5	30
Benzyl chloride	ND		20.0	20.2		ug/L		101	60 - 140	5	30
Bromobenzene	ND		20.0	21.8		ug/L		109	60 - 140	3	30
Bromodichloromethane	ND		20.0	22.5		ug/L		113	65 - 135	5	30
Bromoform	ND		20.0	21.0		ug/L		105	70 - 130	6	30
Bromomethane	ND		20.0	18.9		ug/L		95	15 - 185	3	30
Carbon disulfide	ND		20.0	16.2		ug/L		81	60 - 140	5	30
Carbon tetrachloride	ND		20.0	23.7		ug/L		118	70 - 130	7	30
Chlorobenzene	ND		20.0	21.6		ug/L		108	65 - 135	3	30
Chloroethane	ND		20.0	20.2		ug/L		101	40 - 160	6	30
Chloroform	ND		20.0	21.6		ug/L		108	70 - 135	5	30
Chloromethane	ND		20.0	26.2		ug/L		131	10 - 200	3	30
cis-1,2-Dichloroethene	ND		20.0	22.9		ug/L		114	60 - 140	5	30
cis-1,3-Dichloropropene	ND		20.0	20.8		ug/L		104	25 - 175	3	30
Cyclohexane	ND		20.0	22.8		ug/L		114	60 - 140	2	30
Dibromochloromethane	ND		20.0	21.7		ug/L		109	70 - 135	8	30
Dibromomethane	ND		20.0	22.8		ug/L		114	60 - 140	4	30
Dichlorodifluoromethane	ND	F1	20.0	30.7	F1	ug/L		154	60 - 140	2	30
Dichlorofluoromethane	ND		20.0	18.6		ug/L		93	60 - 140	0	30
di-Isopropyl ether	ND		20.0	21.2		ug/L		106	60 - 140	5	30
Ethyl methacrylate	ND		20.0	20.7		ug/L		104	60 - 140	2	30
Ethyl t-butyl ether	ND		20.0	22.2		ug/L		111	60 - 140	5	30
Ethylbenzene	ND		20.0	22.4		ug/L		112	60 - 140	4	30
Freon 113	ND		20.0	19.0		ug/L		95	60 - 140	6	30
Freon 123a	ND		20.0	16.3		ug/L		82	60 - 140	11	30
Hexachlorobutadiene	ND		20.0	17.4		ug/L		87	60 - 140	13	30
Isobutyl alcohol	ND		500	569		ug/L		114	60 - 140	9	30
Isopropylbenzene	ND		20.0	21.6		ug/L		108	60 - 140	2	30
m&p-Xylene	ND		40.0	45.0		ug/L		112	60 - 140	2	30
Methacrylonitrile	ND		150	181		ug/L		121	60 - 140	4	30
Methyl iodide	ND		20.0	15.5		ug/L		77	60 - 140	5	30
Methyl methacrylate	ND		20.0	21.0		ug/L		105	60 - 140	6	30
Methylene Chloride	ND		20.0	14.6		ug/L		73	60 - 140	5	30
Naphthalene	ND		20.0	20.2		ug/L		101	60 - 140	4	30
n-Butylbenzene	ND		20.0	21.8		ug/L		109	60 - 140	5	30
n-Heptane	0.50	J	20.0	18.2		ug/L		89	60 - 140	12	30
n-Hexane	ND		20.0	19.0		ug/L		95	60 - 140	11	30
N-Propylbenzene	ND		20.0	23.6		ug/L		118	60 - 140	3	30
o-Xylene	ND		20.0	20.9		ug/L		104	60 - 140	6	30
p-Isopropyltoluene	ND		20.0	21.4		ug/L		107	60 - 140	6	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-142423-1 MSD
Matrix: Groundwater
Analysis Batch: 420179

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Propionitrile	ND	F1	150	206		ug/L		137	60 - 140	3	30
sec-Butylbenzene	ND		20.0	22.1		ug/L		111	60 - 140	5	30
Styrene	ND		20.0	21.5		ug/L		107	60 - 140	5	30
t-Amyl methyl ether	ND		20.0	20.8		ug/L		104	60 - 140	4	30
t-Butyl alcohol	16	J	200	219		ug/L		101	60 - 140	3	30
tert-Butylbenzene	ND		20.0	21.3		ug/L		107	60 - 140	6	30
Tetrachloroethene	0.89	J	20.0	21.7		ug/L		104	70 - 130	6	30
Tetrahydrofuran	ND		100	113		ug/L		113	60 - 140	5	30
Toluene	ND		20.0	23.2		ug/L		116	70 - 130	3	30
trans-1,2-Dichloroethene	ND		20.0	16.4		ug/L		82	70 - 130	5	30
trans-1,3-Dichloropropene	ND		20.0	22.2		ug/L		111	50 - 150	1	30
trans-1,4-Dichloro-2-butene	ND		100	121		ug/L		121	60 - 140	5	30
Trichloroethene	ND		20.0	21.1		ug/L		105	65 - 135	5	30
Trichlorofluoromethane	ND		20.0	20.0		ug/L		100	50 - 150	1	30
Vinyl chloride	ND		20.0	25.0		ug/L		125	10 - 195	2	30
Xylenes, Total	ND		60.0	65.9		ug/L		110	60 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*
4-Bromofluorobenzene (Surr)	*108*		*60 - 140*
Dibromofluoromethane (Surr)	*99*		*60 - 140*
Toluene-d8 (Surr)	*107*		*60 - 140*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-420518/6
Matrix: Water
Analysis Batch: 420518

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/18/23 11:30	1
Acetone	ND		20	0.70	ug/L			09/18/23 11:30	1
2-Butanone	ND		10	0.50	ug/L			09/18/23 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*09/18/23 11:30*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/18/23 11:30*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/18/23 11:30*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*09/18/23 11:30*	*1*

Lab Sample ID: LCS 410-420518/4
Matrix: Water
Analysis Batch: 420518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tertiary butyl ether	20.0	19.9		ug/L		99	69 - 122
Acetone	250	411	*+	ug/L		165	54 - 157
2-Butanone	250	324		ug/L		130	59 - 135

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-420518/4
Matrix: Water
Analysis Batch: 420518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	106		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-419582/1-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,4-Dioxane	ND		5.0	2.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		09/14/23 15:25	09/14/23 22:31	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
2-Chlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2-Methylnaphthalene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
2-Methylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2-Nitroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2-Nitrophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		09/14/23 15:25	09/14/23 22:31	1
3-Nitroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Chloroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Methylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Nitroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Nitrophenol	ND		5.0	0.90	ug/L		09/14/23 15:25	09/14/23 22:31	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-419582/1-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
Acenaphthylene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Acetophenone	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Aniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Anthracene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
a-Terpineol	ND		5.0	0.60	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzidine	ND		60	6.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzoic acid	ND		30	4.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzyl alcohol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Carbazole	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Chrysene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		09/14/23 15:25	09/14/23 22:31	1
Dibenzofuran	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Diethylphthalate	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Dimethylphthalate	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Diphenyl ether	ND		5.0	0.75	ug/L		09/14/23 15:25	09/14/23 22:31	1
Fluoranthene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Fluorene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Hexachloroethane	ND		2.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		09/14/23 15:25	09/14/23 22:31	1
Isophorone	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Naphthalene	ND		2.0	0.30	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Decane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Docosane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Eicosane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Hexadecane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Nitrobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Octadecane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Tetradecane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-419582/1-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Toluidine	ND		5.0	1.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Pentachlorophenol	ND		5.0	0.80	ug/L		09/14/23 15:25	09/14/23 22:31	1
Phenanthrene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Phenol	ND		1.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Pyrene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
Pyridine	ND		10	0.80	ug/L		09/14/23 15:25	09/14/23 22:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*67*		*10 - 150*	*09/14/23 15:25*	*09/14/23 22:31*	*1*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*	*09/14/23 15:25*	*09/14/23 22:31*	*1*
2-Fluorophenol (Surr)	*41*		*10 - 83*	*09/14/23 15:25*	*09/14/23 22:31*	*1*
Nitrobenzene-d5 (Surr)	*78*		*41 - 121*	*09/14/23 15:25*	*09/14/23 22:31*	*1*
Phenol-d5 (Surr)	*29*		*10 - 63*	*09/14/23 15:25*	*09/14/23 22:31*	*1*
p-Terphenyl-d14 (Surr)	*105*		*28 - 134*	*09/14/23 15:25*	*09/14/23 22:31*	*1*

Lab Sample ID: LCS 410-419582/2-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	50.0	48.8		ug/L		98	60 - 119
1,2,4,5-Tetrachlorobenzene	50.0	46.4		ug/L		93	43 - 119
1,2,4-Trichlorobenzene	50.0	48.0		ug/L		96	44 - 142
1,2-Dichlorobenzene	50.0	43.8		ug/L		88	39 - 113
1,2-Diphenylhydrazine	50.0	51.0		ug/L		102	57 - 141
1,3-Dichlorobenzene	50.0	42.9		ug/L		86	37 - 107
1,4-Dichlorobenzene	50.0	43.8		ug/L		88	37 - 110
1,4-Dioxane	50.0	29.1		ug/L		58	25 - 64
1-Methylnaphthalene	50.0	49.2		ug/L		98	61 - 114
1-Methylphenanthrene	50.0	52.3		ug/L		105	75 - 118
2,2'-oxybis[1-chloropropane]	50.0	48.6		ug/L		97	48 - 110
2,3,4,6-Tetrachlorophenol	50.0	49.3		ug/L		99	43 - 137
2,3-Dichloroaniline	50.0	47.4		ug/L		95	57 - 124
2,4,5-Trichlorophenol	50.0	52.5		ug/L		105	69 - 133
2,4,6-Trichlorophenol	50.0	53.6		ug/L		107	37 - 144
2,4-Dichlorophenol	50.0	54.2		ug/L		108	39 - 135
2,4-Dimethylphenol	50.0	43.5		ug/L		87	32 - 120
2,4-Dinitrophenol	100	110		ug/L		110	10 - 191
2,4-Dinitrotoluene	50.0	55.5		ug/L		111	39 - 139
2,6-Dichlorophenol	50.0	52.5		ug/L		105	77 - 120
2,6-Dinitrotoluene	50.0	53.9		ug/L		108	50 - 158
2-Chloronaphthalene	50.0	44.6		ug/L		89	60 - 120
2-Chlorophenol	50.0	43.8		ug/L		88	23 - 134
2-Methylnaphthalene	50.0	48.6		ug/L		97	50 - 114
2-Methylphenol	50.0	43.7		ug/L		87	52 - 113
2-Nitroaniline	50.0	49.9		ug/L		100	60 - 125
2-Nitrophenol	50.0	49.8		ug/L		100	29 - 182

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-419582/2-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3,3'-Dichlorobenzidine	100	84.7		ug/L		85	10 - 200
3-Nitroaniline	50.0	46.6		ug/L		93	36 - 147
4,6-Dinitro-2-methylphenol	100	111		ug/L		111	10 - 181
4-Bromophenyl-phenylether	50.0	54.3		ug/L		109	53 - 127
4-Chloro-3-methylphenol	50.0	47.7		ug/L		95	22 - 147
4-Chloroaniline	50.0	42.5		ug/L		85	33 - 109
4-Chlorophenyl-phenylether	50.0	50.5		ug/L		101	25 - 158
4-Methylphenol	50.0	37.4		ug/L		75	47 - 96
4-Nitroaniline	50.0	44.9		ug/L		90	36 - 150
4-Nitrophenol	100	54.4		ug/L		54	10 - 132
Acenaphthene	50.0	49.2		ug/L		98	47 - 145
Acenaphthylene	50.0	48.5		ug/L		97	33 - 145
Acetophenone	50.0	49.9		ug/L		100	55 - 122
Aniline	50.0	37.5		ug/L		75	21 - 106
Anthracene	50.0	52.7		ug/L		105	27 - 133
a-Terpineol	50.0	45.0		ug/L		90	56 - 132
Benzidine	100	25.7	J	ug/L		26	10 - 72
Benzo[a]anthracene	50.0	51.9		ug/L		104	33 - 143
Benzo[a]pyrene	50.0	56.7		ug/L		113	17 - 163
Benzo[b]fluoranthene	50.0	47.0		ug/L		94	24 - 159
Benzo[g,h,i]perylene	50.0	54.4		ug/L		109	10 - 200
Benzo[k]fluoranthene	50.0	54.6		ug/L		109	11 - 162
Benzoic acid	50.0	37.1		ug/L		74	10 - 96
Benzyl alcohol	50.0	45.9		ug/L		92	53 - 137
Bis(2-chloroethoxy)methane	50.0	48.9		ug/L		98	33 - 184
Bis(2-chloroethyl)ether	50.0	49.4		ug/L		99	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	52.0		ug/L		104	10 - 158
Butylbenzylphthalate	50.0	45.8		ug/L		92	10 - 152
Carbazole	50.0	50.7		ug/L		101	62 - 127
Chrysene	50.0	55.9		ug/L		112	17 - 168
Dibenz(a,h)anthracene	50.0	52.8		ug/L		106	10 - 200
Dibenzofuran	50.0	50.3		ug/L		101	60 - 126
Diethylphthalate	50.0	44.3		ug/L		89	10 - 120
Dimethylphthalate	50.0	41.8		ug/L		84	10 - 120
Di-n-butyl phthalate	50.0	48.6		ug/L		97	10 - 120
Di-n-octyl phthalate	50.0	54.2		ug/L		108	10 - 146
Diphenyl ether	50.0	46.2		ug/L		92	63 - 121
Fluoranthene	50.0	49.8		ug/L		100	26 - 137
Fluorene	50.0	49.0		ug/L		98	59 - 121
Hexachlorobenzene	50.0	53.7		ug/L		107	10 - 152
Hexachlorobutadiene	50.0	46.1		ug/L		92	24 - 120
Hexachlorocyclopentadiene	50.0	22.5		ug/L		45	10 - 87
Hexachloroethane	50.0	39.8		ug/L		80	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	54.5		ug/L		109	10 - 171
Isophorone	50.0	49.8		ug/L		100	21 - 196
Naphthalene	50.0	46.8		ug/L		94	21 - 133
n-Decane	50.0	36.7		ug/L		73	15 - 104
n-Docosane	50.0	51.3		ug/L		103	41 - 167
n-Eicosane	50.0	47.5		ug/L		95	41 - 162

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-419582/2-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
n-Hexadecane	50.0	42.5		ug/L		85	39 - 134
Nitrobenzene	50.0	48.5		ug/L		97	35 - 180
N-Nitrosodimethylamine	50.0	36.9		ug/L		74	33 - 83
N-Nitrosodi-n-propylamine	50.0	45.4		ug/L		91	10 - 200
N-Nitrosodiphenylamine	42.5	46.8		ug/L		110	63 - 127
n-Octadecane	50.0	46.6		ug/L		93	51 - 134
n-Tetradecane	50.0	37.2		ug/L		74	19 - 133
Pentachlorophenol	100	122		ug/L		122	14 - 176
Phenanthrene	50.0	52.1		ug/L		104	54 - 120
Phenol	50.0	26.7		ug/L		53	10 - 120
Pyrene	50.0	53.5		ug/L		107	52 - 120
Pyridine	100	59.6		ug/L		60	27 - 75

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*80*		*10 - 150*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*
2-Fluorophenol (Surr)	*51*		*10 - 83*
Nitrobenzene-d5 (Surr)	*79*		*41 - 121*
Phenol-d5 (Surr)	*38*		*10 - 63*
p-Terphenyl-d14 (Surr)	*97*		*28 - 134*

Lab Sample ID: LCS 410-419582/4-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodiethylamine	50.0	41.3		ug/L		83	60 - 106
N-Nitrosodi-n-butylamine	50.0	37.8		ug/L		76	57 - 101
N-Nitrosopyrrolidine	50.0	41.8		ug/L		84	43 - 125
o-Toluidine	50.0	37.8		ug/L		76	44 - 103
Pentachlorobenzene	50.0	45.9		ug/L		92	48 - 114

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*79*		*10 - 150*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*
2-Fluorophenol (Surr)	*46*		*10 - 83*
Nitrobenzene-d5 (Surr)	*76*		*41 - 121*
Phenol-d5 (Surr)	*34*		*10 - 63*
p-Terphenyl-d14 (Surr)	*92*		*28 - 134*

Lab Sample ID: LCSD 410-419582/3-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419582

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	50.0	48.6		ug/L		97	60 - 119	1	30
1,2,4,5-Tetrachlorobenzene	50.0	45.5		ug/L		91	43 - 119	2	30
1,2,4-Trichlorobenzene	50.0	44.3		ug/L		89	44 - 142	8	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-419582/3-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419582

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	40.4		ug/L		81	39 - 113	8	30
1,2-Diphenylhydrazine	50.0	49.4		ug/L		99	57 - 141	3	30
1,3-Dichlorobenzene	50.0	37.6		ug/L		75	37 - 107	13	30
1,4-Dichlorobenzene	50.0	39.7		ug/L		79	37 - 110	10	30
1,4-Dioxane	50.0	25.0		ug/L		50	25 - 64	15	30
1-Methylnaphthalene	50.0	48.7		ug/L		97	61 - 114	1	30
1-Methylphenanthrene	50.0	52.9		ug/L		106	75 - 118	1	30
2,2'-oxybis[1-chloropropane]	50.0	44.2		ug/L		88	48 - 110	9	30
2,3,4,6-Tetrachlorophenol	50.0	52.7		ug/L		105	43 - 137	7	30
2,3-Dichloroaniline	50.0	47.9		ug/L		96	57 - 124	1	30
2,4,5-Trichlorophenol	50.0	56.4		ug/L		113	69 - 133	7	30
2,4,6-Trichlorophenol	50.0	54.9		ug/L		110	37 - 144	2	30
2,4-Dichlorophenol	50.0	55.2		ug/L		110	39 - 135	2	30
2,4-Dimethylphenol	50.0	44.3		ug/L		89	32 - 120	2	30
2,4-Dinitrophenol	100	120		ug/L		120	10 - 191	8	30
2,4-Dinitrotoluene	50.0	58.2		ug/L		116	39 - 139	5	30
2,6-Dichlorophenol	50.0	52.6		ug/L		105	77 - 120	0	30
2,6-Dinitrotoluene	50.0	56.7		ug/L		113	50 - 158	5	30
2-Chloronaphthalene	50.0	42.9		ug/L		86	60 - 120	4	24
2-Chlorophenol	50.0	41.7		ug/L		83	23 - 134	5	30
2-Methylnaphthalene	50.0	49.0		ug/L		98	50 - 114	1	30
2-Methylphenol	50.0	43.1		ug/L		86	52 - 113	2	30
2-Nitroaniline	50.0	53.2		ug/L		106	60 - 125	6	30
2-Nitrophenol	50.0	50.4		ug/L		101	29 - 182	1	30
3,3'-Dichlorobenzidine	100	88.8		ug/L		89	10 - 200	5	30
3-Nitroaniline	50.0	48.3		ug/L		97	36 - 147	4	30
4,6-Dinitro-2-methylphenol	100	117		ug/L		117	10 - 181	5	30
4-Bromophenyl-phenylether	50.0	53.0		ug/L		106	53 - 127	2	30
4-Chloro-3-methylphenol	50.0	50.0		ug/L		100	22 - 147	5	30
4-Chloroaniline	50.0	43.3		ug/L		87	33 - 109	2	30
4-Chlorophenyl-phenylether	50.0	52.4		ug/L		105	25 - 158	4	30
4-Methylphenol	50.0	37.5		ug/L		75	47 - 96	0	30
4-Nitroaniline	50.0	49.3		ug/L		99	36 - 150	9	30
4-Nitrophenol	100	64.7		ug/L		65	10 - 132	17	30
Acenaphthene	50.0	50.8		ug/L		102	47 - 145	3	30
Acenaphthylene	50.0	48.2		ug/L		96	33 - 145	1	30
Acetophenone	50.0	47.8		ug/L		96	55 - 122	4	30
Aniline	50.0	35.3		ug/L		71	21 - 106	6	30
Anthracene	50.0	53.1		ug/L		106	27 - 133	1	30
a-Terpineol	50.0	43.7		ug/L		87	56 - 132	3	30
Benzidine	100	27.1	J	ug/L		27	10 - 72	5	30
Benzo[a]anthracene	50.0	52.1		ug/L		104	33 - 143	0	30
Benzo[a]pyrene	50.0	58.3		ug/L		117	17 - 163	3	30
Benzo[b]fluoranthene	50.0	48.9		ug/L		98	24 - 159	4	30
Benzo[g,h,i]perylene	50.0	52.8		ug/L		106	10 - 200	3	30
Benzo[k]fluoranthene	50.0	55.1		ug/L		110	11 - 162	1	30
Benzoic acid	50.0	47.4		ug/L		95	10 - 96	24	30
Benzyl alcohol	50.0	43.6		ug/L		87	53 - 137	5	30
Bis(2-chloroethoxy)methane	50.0	48.9		ug/L		98	33 - 184	0	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-419582/3-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419582

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether			50.0	45.0		ug/L		90	12 - 158	9	30
Bis(2-ethylhexyl) phthalate			50.0	53.6		ug/L		107	10 - 158	3	30
Butylbenzylphthalate			50.0	46.3		ug/L		93	10 - 152	1	30
Carbazole			50.0	52.0		ug/L		104	62 - 127	3	30
Chrysene			50.0	56.6		ug/L		113	17 - 168	1	30
Dibenz(a,h)anthracene			50.0	54.1		ug/L		108	10 - 200	2	30
Dibenzofuran			50.0	51.5		ug/L		103	60 - 126	2	30
Diethylphthalate			50.0	46.9		ug/L		94	10 - 120	6	30
Dimethylphthalate			50.0	43.4		ug/L		87	10 - 120	4	30
Di-n-butyl phthalate			50.0	49.1		ug/L		98	10 - 120	1	30
Di-n-octyl phthalate			50.0	56.1		ug/L		112	10 - 146	3	30
Diphenyl ether			50.0	45.5		ug/L		91	63 - 121	2	30
Fluoranthene			50.0	50.9		ug/L		102	26 - 137	2	30
Fluorene			50.0	50.6		ug/L		101	59 - 121	3	30
Hexachlorobenzene			50.0	54.8		ug/L		110	10 - 152	2	30
Hexachlorobutadiene			50.0	43.0		ug/L		86	24 - 120	7	30
Hexachlorocyclopentadiene			50.0	20.7		ug/L		41	10 - 87	9	30
Hexachloroethane			50.0	35.8		ug/L		72	40 - 120	11	30
Indeno[1,2,3-cd]pyrene			50.0	56.5		ug/L		113	10 - 171	4	30
Isophorone			50.0	49.1		ug/L		98	21 - 196	1	30
Naphthalene			50.0	45.6		ug/L		91	21 - 133	3	30
n-Decane			50.0	31.9		ug/L		64	15 - 104	14	30
n-Docosane			50.0	52.0		ug/L		104	41 - 167	1	30
n-Eicosane			50.0	47.0		ug/L		94	41 - 162	1	30
n-Hexadecane			50.0	43.9		ug/L		88	39 - 134	3	30
Nitrobenzene			50.0	46.9		ug/L		94	35 - 180	3	30
N-Nitrosodimethylamine			50.0	32.8		ug/L		66	33 - 83	12	30
N-Nitrosodi-n-propylamine			50.0	44.3		ug/L		89	10 - 200	3	30
N-Nitrosodiphenylamine			42.5	46.6		ug/L		110	63 - 127	0	30
n-Octadecane			50.0	48.0		ug/L		96	51 - 134	3	30
n-Tetradecane			50.0	37.1		ug/L		74	19 - 133	0	30
Pentachlorophenol			100	127		ug/L		127	14 - 176	4	30
Phenanthrene			50.0	52.8		ug/L		106	54 - 120	1	30
Phenol			50.0	25.8		ug/L		52	10 - 120	3	30
Pyrene			50.0	54.6		ug/L		109	52 - 120	2	30
Pyridine			100	53.8		ug/L		54	27 - 75	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*86*		*10 - 150*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*
2-Fluorophenol (Surr)	*46*		*10 - 83*
Nitrobenzene-d5 (Surr)	*74*		*41 - 121*
Phenol-d5 (Surr)	*36*		*10 - 63*
p-Terphenyl-d14 (Surr)	*99*		*28 - 134*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-419582/5-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419582

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodiethylamine			50.0	39.3		ug/L		79	60 - 106	5	30
N-Nitrosodi-n-butylamine			50.0	34.6		ug/L		69	57 - 101	9	30
N-Nitrosopyrrolidine			50.0	41.3		ug/L		83	43 - 125	1	30
o-Toluidine			50.0	33.5		ug/L		67	44 - 103	12	30
Pentachlorobenzene			50.0	46.5		ug/L		93	48 - 114	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*71*		*10 - 150*
2-Fluorobiphenyl (Surr)	*77*		*32 - 115*
2-Fluorophenol (Surr)	*52*		*10 - 83*
Nitrobenzene-d5 (Surr)	*76*		*41 - 121*
Phenol-d5 (Surr)	*40*		*10 - 63*
p-Terphenyl-d14 (Surr)	*91*		*28 - 134*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-422203/1-A
Matrix: Water
Analysis Batch: 422097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		09/21/23 12:07	09/21/23 12:28	1
Ethene (1C)	ND		5.0	1.0	ug/L		09/21/23 12:07	09/21/23 12:28	1
Methane (1C)	ND		5.0	3.0	ug/L		09/21/23 12:07	09/21/23 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*90*		*43 - 133*	*09/21/23 12:07*	*09/21/23 12:28*	*1*

Lab Sample ID: LCS 410-422203/2-A
Matrix: Water
Analysis Batch: 422097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422203

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane (1C)			61.7	62.5		ug/L		101	85 - 115
Ethene (1C)			58.3	58.8		ug/L		101	83 - 115
Methane (1C)			59.8	62.0		ug/L		104	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*94*		*43 - 133*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-419666/5
Matrix: Water
Analysis Batch: 419666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			09/15/23 11:12	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 410-419666/5
Matrix: Water
Analysis Batch: 419666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	0.60	mg/L			09/15/23 11:12	1

Lab Sample ID: LCS 410-419666/3
Matrix: Water
Analysis Batch: 419666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			7.50	7.36		mg/L		98	90 - 110		
Chloride			3.00	2.94		mg/L		98	90 - 110		

Lab Sample ID: LCSD 410-419666/4
Matrix: Water
Analysis Batch: 419666

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			7.50	7.37		mg/L		98	90 - 110	0	20
Chloride			3.00	2.94		mg/L		98	90 - 110	0	20

Lab Sample ID: MB 410-420127/5
Matrix: Water
Analysis Batch: 420127

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			09/16/23 11:18	1
Chloride	ND		1.5	0.60	mg/L			09/16/23 11:18	1

Lab Sample ID: LCS 410-420127/3
Matrix: Water
Analysis Batch: 420127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			7.50	7.83		mg/L		104	90 - 110		
Chloride			3.00	3.09		mg/L		103	90 - 110		

Lab Sample ID: LCSD 410-420127/4
Matrix: Water
Analysis Batch: 420127

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			7.50	7.81		mg/L		104	90 - 110	0	20
Chloride			3.00	3.08		mg/L		103	90 - 110	0	20

Lab Sample ID: MB 410-420161/5
Matrix: Water
Analysis Batch: 420161

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			09/15/23 23:50	1
Chloride	ND		1.5	0.60	mg/L			09/15/23 23:50	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-420161/3
Matrix: Water
Analysis Batch: 420161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	7.44		mg/L		99	90 - 110
Chloride	3.00	2.97		mg/L		99	90 - 110

Lab Sample ID: LCSD 410-420161/4
Matrix: Water
Analysis Batch: 420161

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	7.43		mg/L		99	90 - 110	0	20
Chloride	3.00	2.97		mg/L		99	90 - 110	0	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-419237/1-A
Matrix: Water
Analysis Batch: 420400

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 419237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		09/14/23 00:53	09/17/23 16:41	1
Aluminum	ND		30	12	ug/L		09/14/23 00:53	09/17/23 16:41	1
Arsenic	ND		2.0	0.68	ug/L		09/14/23 00:53	09/17/23 16:41	1
Barium	ND		2.0	0.75	ug/L		09/14/23 00:53	09/17/23 16:41	1
Beryllium	ND		0.50	0.12	ug/L		09/14/23 00:53	09/17/23 16:41	1
Cadmium	ND		0.50	0.15	ug/L		09/14/23 00:53	09/17/23 16:41	1
Calcium	ND		120	50	ug/L		09/14/23 00:53	09/17/23 16:41	1
Chromium	ND		2.0	0.55	ug/L		09/14/23 00:53	09/17/23 16:41	1
Cobalt	ND		0.50	0.16	ug/L		09/14/23 00:53	09/17/23 16:41	1
Copper	ND		1.0	0.36	ug/L		09/14/23 00:53	09/17/23 16:41	1
Iron	ND		50	20	ug/L		09/14/23 00:53	09/17/23 16:41	1
Lead	ND		0.50	0.12	ug/L		09/14/23 00:53	09/17/23 16:41	1
Magnesium	ND		50	16	ug/L		09/14/23 00:53	09/17/23 16:41	1
Manganese	ND		2.0	0.95	ug/L		09/14/23 00:53	09/17/23 16:41	1
Nickel	ND		1.0	0.40	ug/L		09/14/23 00:53	09/17/23 16:41	1
Potassium	ND		200	65	ug/L		09/14/23 00:53	09/17/23 16:41	1
Selenium	ND		1.0	0.28	ug/L		09/14/23 00:53	09/17/23 16:41	1
Silver	ND		0.50	0.10	ug/L		09/14/23 00:53	09/17/23 16:41	1
Sodium	ND		200	90	ug/L		09/14/23 00:53	09/17/23 16:41	1
Thallium	ND		0.50	0.13	ug/L		09/14/23 00:53	09/17/23 16:41	1
Vanadium	ND		4.0	0.79	ug/L		09/14/23 00:53	09/17/23 16:41	1
Zinc	ND		10	4.0	ug/L		09/14/23 00:53	09/17/23 16:41	1

Lab Sample ID: LCS 410-419237/2-A
Matrix: Water
Analysis Batch: 420400

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 419237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	105		ug/L		105	85 - 115
Aluminum	5000	5100		ug/L		102	85 - 115
Arsenic	500	503		ug/L		101	85 - 115

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-419237/2-A
Matrix: Water
Analysis Batch: 420400

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 419237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	500	525		ug/L		105	85 - 115
Beryllium	50.0	49.5		ug/L		99	85 - 115
Cadmium	50.0	54.0		ug/L		108	85 - 115
Calcium	5000	5070		ug/L		101	85 - 115
Chromium	500	509		ug/L		102	85 - 115
Cobalt	500	505		ug/L		101	85 - 115
Copper	500	498		ug/L		100	85 - 115
Iron	5000	5160		ug/L		103	85 - 115
Lead	50.0	52.0		ug/L		104	85 - 115
Magnesium	5000	5070		ug/L		101	85 - 115
Manganese	500	517		ug/L		103	85 - 115
Nickel	500	501		ug/L		100	85 - 115
Potassium	5000	5150		ug/L		103	85 - 115
Selenium	100	99.6		ug/L		100	85 - 115
Silver	50.0	52.4		ug/L		105	85 - 115
Sodium	5000	4890		ug/L		98	85 - 115
Thallium	100	102		ug/L		102	85 - 115
Vanadium	500	514		ug/L		103	85 - 115
Zinc	500	509		ug/L		102	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-419254/1-A
Matrix: Water
Analysis Batch: 420169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		09/14/23 02:51	09/15/23 20:16	1

Lab Sample ID: LCS 410-419254/2-A
Matrix: Water
Analysis Batch: 420169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.00105		mg/L		105	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-420140/1
Matrix: Water
Analysis Batch: 420140

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			09/15/23 19:03	1

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 410-420140/2
Matrix: Water
Analysis Batch: 420140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil & Grease)	40.0	32.80		mg/L		82	78 - 114

Lab Sample ID: LCSD 410-420140/3
Matrix: Water
Analysis Batch: 420140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	33.00		mg/L		83	78 - 114	1	13

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-419147/3
Matrix: Water
Analysis Batch: 419147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			09/13/23 17:46	1

Lab Sample ID: LCS 410-419147/4
Matrix: Water
Analysis Batch: 419147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Turbidity	10.0	10		NTU		101	86 - 110

Lab Sample ID: MB 410-419175/3
Matrix: Water
Analysis Batch: 419175

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			09/13/23 19:00	1

Lab Sample ID: LCS 410-419175/4
Matrix: Water
Analysis Batch: 419175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Turbidity	10.0	9.7		NTU		97	86 - 110

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-420089/24
Matrix: Water
Analysis Batch: 420089

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			09/15/23 11:20	1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-420089/26
Matrix: Water
Analysis Batch: 420089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	189	180		mg/L		95	66 - 110

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-421286/4
Matrix: Water
Analysis Batch: 421286

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			09/19/23 13:43	1

Lab Sample ID: LCS 410-421286/5
Matrix: Water
Analysis Batch: 421286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Hardness	40.0	38.4		mg/L		96	90 - 110

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-419312/38
Matrix: Water
Analysis Batch: 419312

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			09/14/23 00:13	1

Lab Sample ID: LCS 410-419312/39
Matrix: Water
Analysis Batch: 419312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1380		umhos/cm		98	90 - 110

Method: 2540C - 2015 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-419120/1
Matrix: Water
Analysis Batch: 419120

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			09/13/23 16:47	1

Lab Sample ID: LCS 410-419120/2
Matrix: Water
Analysis Batch: 419120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	202		mg/L		101	90 - 110

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-418868/1
Matrix: Water
Analysis Batch: 418868

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.0	1.0	mg/L			09/13/23 08:25	1

Lab Sample ID: LCS 410-418868/2
Matrix: Water
Analysis Batch: 418868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	145		mg/L		96	89 - 105

Method: 2540F-2015 - Solids, Settleable

Lab Sample ID: MB 410-419145/1
Matrix: Water
Analysis Batch: 419145

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			09/13/23 17:20	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-419584/3-A
Matrix: Water
Analysis Batch: 420045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		09/14/23 15:30	09/15/23 10:18	1

Lab Sample ID: LCS 410-419584/1-A
Matrix: Water
Analysis Batch: 420045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.86	5.08		mg/L		104	90 - 110

Lab Sample ID: LCSD 410-419584/2-A
Matrix: Water
Analysis Batch: 420045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419584

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	4.86	5.05		mg/L		104	90 - 110	1	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-419672/2-A
Matrix: Water
Analysis Batch: 420117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		09/14/23 20:30	09/15/23 12:24	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 410-419672/1-A
Matrix: Water
Analysis Batch: 420117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as PO4	3.99	4.38		mg/L		110	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 410-421045/4
Matrix: Water
Analysis Batch: 421045

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			09/19/23 08:01	1

Lab Sample ID: LCS 410-421045/5
Matrix: Water
Analysis Batch: 421045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	500	499		mg/L		100	90 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-419013/19
Matrix: Water
Analysis Batch: 419013

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			09/13/23 11:40	1

Lab Sample ID: LCS 410-419013/17
Matrix: Water
Analysis Batch: 419013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.246		mg/L		98	90 - 110

Lab Sample ID: LCSD 410-419013/18
Matrix: Water
Analysis Batch: 419013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.250	0.253		mg/L		101	90 - 110	3	6

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-420090/25
Matrix: Water
Analysis Batch: 420090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		101	95 - 105

Method: 5210 B-2016 - BOD, 5-Day

Lab Sample ID: SCB 410-420953/4
Matrix: Water
Analysis Batch: 420953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.931		0.0000010	0.0000010	mg/L			09/13/23 12:50	1

Lab Sample ID: USB 410-420953/2
Matrix: Water
Analysis Batch: 420953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.00333		0.0000010	0.0000010	mg/L			09/13/23 12:50	1

Lab Sample ID: LCS 410-420953/73
Matrix: Water
Analysis Batch: 420953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	199	181		mg/L		91	85 - 115

Lab Sample ID: 410-142423-1 DU
Matrix: Groundwater
Analysis Batch: 420953

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Biochemical Oxygen Demand	ND		ND		mg/L		NC	22

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 410-420413/4
Matrix: Water
Analysis Batch: 420413

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000	500	ug/L			09/14/23 18:44	1
TOC Result 1	ND		1000	500	ug/L			09/14/23 18:44	1
TOC Result 2	ND		1000	500	ug/L			09/14/23 18:44	1
TOC Result 3	ND		1000	500	ug/L			09/14/23 18:44	1
TOC Result 4	ND		1000	500	ug/L			09/14/23 18:44	1

Lab Sample ID: LCS 410-420413/3
Matrix: Water
Analysis Batch: 420413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	25000	26300		ug/L		105	91 - 113

Lab Sample ID: 410-142423-1 MS
Matrix: Groundwater
Analysis Batch: 420413

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	6800		10000	16900		ug/L		101	91 - 113

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 410-142423-1 MSD
Matrix: Groundwater
Analysis Batch: 420413

Client Sample ID: Outfall-01A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	6800		10000	17000		ug/L		102	91 - 113	1	20

GC/MS VOA

Analysis Batch: 420179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	624.1	
410-142423-2	Outfall-001	Total/NA	Groundwater	624.1	
410-142423-3	QAQC_TB	Total/NA	Water	624.1	
MB 410-420179/6	Method Blank	Total/NA	Water	624.1	
LCS 410-420179/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-420179/1004	Lab Control Sample	Total/NA	Water	624.1	
410-142423-1 MS	Outfall-01A	Total/NA	Groundwater	624.1	
410-142423-1 MSD	Outfall-01A	Total/NA	Groundwater	624.1	

Analysis Batch: 420518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	8260D	
410-142423-2	Outfall-001	Total/NA	Groundwater	8260D	
410-142423-3	QAQC_TB	Total/NA	Water	8260D	
MB 410-420518/6	Method Blank	Total/NA	Water	8260D	
LCS 410-420518/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 419582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	625.1	
410-142423-2	Outfall-001	Total/NA	Groundwater	625.1	
MB 410-419582/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-419582/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCS 410-419582/4-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-419582/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
LCSD 410-419582/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 419674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	625.1	419582
410-142423-2	Outfall-001	Total/NA	Groundwater	625.1	419582
MB 410-419582/1-A	Method Blank	Total/NA	Water	625.1	419582
LCS 410-419582/2-A	Lab Control Sample	Total/NA	Water	625.1	419582
LCS 410-419582/4-A	Lab Control Sample	Total/NA	Water	625.1	419582
LCSD 410-419582/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	419582
LCSD 410-419582/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	419582

GC VOA

Analysis Batch: 422097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1 - RA	Outfall-01A	Total/NA	Groundwater	RSK-175	422203
410-142423-2 - RA	Outfall-001	Total/NA	Groundwater	RSK-175	422203
MB 410-422203/1-A	Method Blank	Total/NA	Water	RSK-175	422203
LCS 410-422203/2-A	Lab Control Sample	Total/NA	Water	RSK-175	422203

Prep Batch: 422203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1 - RA	Outfall-01A	Total/NA	Groundwater	RSK-175	
410-142423-2 - RA	Outfall-001	Total/NA	Groundwater	RSK-175	

GC VOA (Continued)

Prep Batch: 422203 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-422203/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-422203/2-A	Lab Control Sample	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 419666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-419666/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-419666/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-419666/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 420127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-420127/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-420127/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-420127/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 420161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-2	Outfall-001	Total/NA	Groundwater	EPA 300.0 R2.1	
410-142423-2	Outfall-001	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-420161/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-420161/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-420161/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 419237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total Recoverable	Groundwater	200.8 Rev 5.4	
410-142423-2	Outfall-001	Total Recoverable	Groundwater	200.8 Rev 5.4	
MB 410-419237/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-419237/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Prep Batch: 419254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	245.1	
410-142423-2	Outfall-001	Total/NA	Groundwater	245.1	
MB 410-419254/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-419254/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 420169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	245.1	419254
410-142423-2	Outfall-001	Total/NA	Groundwater	245.1	419254
MB 410-419254/1-A	Method Blank	Total/NA	Water	245.1	419254
LCS 410-419254/2-A	Lab Control Sample	Total/NA	Water	245.1	419254

Metals

Analysis Batch: 420400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total Recoverable	Groundwater	200.8 Rev 5.4	419237
410-142423-1	Outfall-01A	Total Recoverable	Groundwater	200.8 Rev 5.4	419237
410-142423-2	Outfall-001	Total Recoverable	Groundwater	200.8 Rev 5.4	419237
410-142423-2	Outfall-001	Total Recoverable	Groundwater	200.8 Rev 5.4	419237
MB 410-419237/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	419237
LCS 410-419237/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	419237

General Chemistry

Analysis Batch: 413593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	SM 2330B	
410-142423-2	Outfall-001	Total/NA	Groundwater	SM 2330B	

Analysis Batch: 418868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	2540D-2015	
410-142423-2	Outfall-001	Total/NA	Groundwater	2540D-2015	
MB 410-418868/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-418868/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 419013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	420.4	
410-142423-2	Outfall-001	Total/NA	Groundwater	420.4	
MB 410-419013/19	Method Blank	Total/NA	Water	420.4	
LCS 410-419013/17	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-419013/18	Lab Control Sample Dup	Total/NA	Water	420.4	

Analysis Batch: 419027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	353.2	
410-142423-2	Outfall-001	Total/NA	Groundwater	353.2	

Analysis Batch: 419120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	2540C - 2015	
410-142423-2	Outfall-001	Total/NA	Groundwater	2540C - 2015	
MB 410-419120/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-419120/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 419145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	2540F-2015	
410-142423-2	Outfall-001	Total/NA	Groundwater	2540F-2015	
MB 410-419145/1	Method Blank	Total/NA	Water	2540F-2015	

Analysis Batch: 419147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	180.1	
MB 410-419147/3	Method Blank	Total/NA	Water	180.1	

General Chemistry (Continued)

Analysis Batch: 419147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-419147/4	Lab Control Sample	Total/NA	Water	180.1	

Analysis Batch: 419175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-2	Outfall-001	Total/NA	Groundwater	180.1	
MB 410-419175/3	Method Blank	Total/NA	Water	180.1	
LCS 410-419175/4	Lab Control Sample	Total/NA	Water	180.1	

Analysis Batch: 419312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	2510B-2011	
410-142423-2	Outfall-001	Total/NA	Groundwater	2510B-2011	
MB 410-419312/38	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-419312/39	Lab Control Sample	Total/NA	Water	2510B-2011	

Prep Batch: 419584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	351.2	
410-142423-2	Outfall-001	Total/NA	Groundwater	351.2	
MB 410-419584/3-A	Method Blank	Total/NA	Water	351.2	
LCS 410-419584/1-A	Lab Control Sample	Total/NA	Water	351.2	
LCSD 410-419584/2-A	Lab Control Sample Dup	Total/NA	Water	351.2	

Prep Batch: 419672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	365.1	
410-142423-2	Outfall-001	Total/NA	Groundwater	365.1	
MB 410-419672/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-419672/1-A	Lab Control Sample	Total/NA	Water	365.1	

Analysis Batch: 420045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	351.2	419584
410-142423-2	Outfall-001	Total/NA	Groundwater	351.2	419584
MB 410-419584/3-A	Method Blank	Total/NA	Water	351.2	419584
LCS 410-419584/1-A	Lab Control Sample	Total/NA	Water	351.2	419584
LCSD 410-419584/2-A	Lab Control Sample Dup	Total/NA	Water	351.2	419584

Analysis Batch: 420089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	2320B-2011	
410-142423-2	Outfall-001	Total/NA	Groundwater	2320B-2011	
MB 410-420089/24	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-420089/26	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 420090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	4500 H+ B-2011	
410-142423-2	Outfall-001	Total/NA	Groundwater	4500 H+ B-2011	
LCS 410-420090/25	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

General Chemistry

Analysis Batch: 420117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	365.1	419672
410-142423-2	Outfall-001	Total/NA	Groundwater	365.1	419672
MB 410-419672/2-A	Method Blank	Total/NA	Water	365.1	419672
LCS 410-419672/1-A	Lab Control Sample	Total/NA	Water	365.1	419672

Analysis Batch: 420140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	1664A	
410-142423-2	Outfall-001	Total/NA	Groundwater	1664A	
MB 410-420140/1	Method Blank	Total/NA	Water	1664A	
LCS 410-420140/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-420140/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 420413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	9060A	
410-142423-2	Outfall-001	Total/NA	Groundwater	9060A	
MB 410-420413/4	Method Blank	Total/NA	Water	9060A	
LCS 410-420413/3	Lab Control Sample	Total/NA	Water	9060A	
410-142423-1 MS	Outfall-01A	Total/NA	Groundwater	9060A	
410-142423-1 MSD	Outfall-01A	Total/NA	Groundwater	9060A	

Analysis Batch: 420953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	5210 B-2016	
410-142423-2	Outfall-001	Total/NA	Groundwater	5210 B-2016	
SCB 410-420953/4	Method Blank	Total/NA	Water	5210 B-2016	
USB 410-420953/2	Method Blank	Total/NA	Water	5210 B-2016	
LCS 410-420953/73	Lab Control Sample	Total/NA	Water	5210 B-2016	
410-142423-1 DU	Outfall-01A	Total/NA	Groundwater	5210 B-2016	

Analysis Batch: 421045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	410.4	
410-142423-2	Outfall-001	Total/NA	Groundwater	410.4	
MB 410-421045/4	Method Blank	Total/NA	Water	410.4	
LCS 410-421045/5	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 421286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142423-1	Outfall-01A	Total/NA	Groundwater	2340C-2011	
410-142423-2	Outfall-001	Total/NA	Groundwater	2340C-2011	
MB 410-421286/4	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-421286/5	Lab Control Sample	Total/NA	Water	2340C-2011	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Client Sample ID: Outfall-01A

Date Collected: 09/12/23 11:22
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-1

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	420179	DVW2	ELLE	09/16/23 03:16
Total/NA	Analysis	8260D		1	420518	DVW2	ELLE	09/18/23 14:10
Total/NA	Prep	625.1			419582	QJZ6	ELLE	09/14/23 15:25
Total/NA	Analysis	625.1		1	419674	SJ89	ELLE	09/15/23 01:26
Total/NA	Prep	RSK-175	RA		422203	HQR6	ELLE	09/21/23 12:07
Total/NA	Analysis	RSK-175	RA	1	422097	GM5C	ELLE	09/21/23 15:48
Total/NA	Analysis	EPA 300.0 R2.1		250	420127	W7FX	ELLE	09/16/23 12:10
Total/NA	Analysis	EPA 300.0 R2.1		50	419666	W7FX	ELLE	09/15/23 14:51
Total Recoverable	Prep	200.8 Rev 5.4			419237	HUH3	ELLE	09/14/23 00:53
Total Recoverable	Analysis	200.8 Rev 5.4		1	420400	LC3M	ELLE	09/17/23 17:22
Total Recoverable	Prep	200.8 Rev 5.4			419237	HUH3	ELLE	09/14/23 00:53
Total Recoverable	Analysis	200.8 Rev 5.4		100	420400	LC3M	ELLE	09/17/23 19:28
Total/NA	Prep	245.1			419254	UAMX	ELLE	09/14/23 02:51
Total/NA	Analysis	245.1		1	420169	UEFS	ELLE	09/15/23 20:41
Total/NA	Analysis	1664A		1	420140	QT6L	ELLE	09/15/23 19:03
Total/NA	Analysis	180.1		1	419147	UDS7	ELLE	09/13/23 17:48
Total/NA	Analysis	2320B-2011		1	420089	DI9Q	ELLE	09/15/23 14:07
Total/NA	Analysis	2340C-2011		10	421286	USAE	ELLE	09/19/23 15:30
Total/NA	Analysis	2510B-2011		1	419312	DI9Q	ELLE	09/14/23 01:33
Total/NA	Analysis	2540C - 2015		1	419120	UOCA	ELLE	09/13/23 16:47
Total/NA	Analysis	2540D-2015		1	418868	M98K	ELLE	09/13/23 08:25 - 09/14/23 07:00 [1]
Total/NA	Analysis	2540F-2015		1	419145	UDS7	ELLE	09/13/23 17:20
Total/NA	Prep	351.2			419584	NLE3	ELLE	09/14/23 15:30 - 09/14/23 18:30 [1]
Total/NA	Analysis	351.2		1	420045	JCG7	ELLE	09/15/23 10:37
Total/NA	Analysis	353.2		1	419027	USJM	ELLE	09/13/23 14:25
Total/NA	Prep	365.1			419672	NLE3	ELLE	09/14/23 20:30 - 09/14/23 21:30 [1]
Total/NA	Analysis	365.1		1	420117	JCG7	ELLE	09/15/23 12:25
Total/NA	Analysis	410.4		1	421045	USAE	ELLE	09/19/23 08:01
Total/NA	Analysis	420.4		1	419013	Q3HN	ELLE	09/13/23 12:49
Total/NA	Analysis	4500 H+ B-2011		1	420090	DI9Q	ELLE	09/15/23 14:07
Total/NA	Analysis	5210 B-2016		1	420953	B6LN	ELLE	09/13/23 21:35
Total/NA	Analysis	9060A		1	420413	P684	ELLE	09/14/23 19:22
Total/NA	Analysis	SM 2330B		1	413593	USJM	ELLE	09/13/23 05:23

Client Sample ID: Outfall-001

Date Collected: 09/12/23 10:12
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142423-2

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	420179	DVW2	ELLE	09/16/23 03:39
Total/NA	Analysis	8260D		1	420518	DVW2	ELLE	09/18/23 14:30

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142423-1
Project/Site: EMGPRP-31097

Client Sample ID: Outfall-001
Lab Sample ID: 410-142423-2
Date Collected: 09/12/23 10:12
Matrix: Groundwater
Date Received: 09/12/23 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	625.1			419582	QJZ6	ELLE	09/14/23 15:25
Total/NA	Analysis	625.1		1	419674	SJ89	ELLE	09/15/23 01:48
Total/NA	Prep	RSK-175	RA		422203	HQR6	ELLE	09/21/23 12:07
Total/NA	Analysis	RSK-175	RA	1	422097	GM5C	ELLE	09/21/23 16:05
Total/NA	Analysis	EPA 300.0 R2.1		25	420161	L4QM	ELLE	09/16/23 01:45
Total/NA	Analysis	EPA 300.0 R2.1		250	420161	L4QM	ELLE	09/16/23 01:58
Total Recoverable	Prep	200.8 Rev 5.4			419237	HUH3	ELLE	09/14/23 00:53
Total Recoverable	Analysis	200.8 Rev 5.4		1	420400	LC3M	ELLE	09/17/23 17:24
Total Recoverable	Prep	200.8 Rev 5.4			419237	HUH3	ELLE	09/14/23 00:53
Total Recoverable	Analysis	200.8 Rev 5.4		100	420400	LC3M	ELLE	09/17/23 19:30
Total/NA	Prep	245.1			419254	UAMX	ELLE	09/14/23 02:51
Total/NA	Analysis	245.1		1	420169	UEFS	ELLE	09/15/23 20:43
Total/NA	Analysis	1664A		1	420140	QT6L	ELLE	09/15/23 19:03
Total/NA	Analysis	180.1		1	419175	UDS7	ELLE	09/13/23 19:00
Total/NA	Analysis	2320B-2011		1	420089	DI9Q	ELLE	09/15/23 14:14
Total/NA	Analysis	2340C-2011		25	421286	USAE	ELLE	09/19/23 17:10
Total/NA	Analysis	2510B-2011		1	419312	DI9Q	ELLE	09/14/23 01:36
Total/NA	Analysis	2540C - 2015		1	419120	UOCA	ELLE	09/13/23 16:47
Total/NA	Analysis	2540D-2015		1	418868	M98K	ELLE	09/13/23 08:25 - 09/14/23 07:00 [1]
Total/NA	Analysis	2540F-2015		1	419145	UDS7	ELLE	09/13/23 17:20
Total/NA	Prep	351.2			419584	NLE3	ELLE	09/14/23 15:30 - 09/14/23 18:30 [1]
Total/NA	Analysis	351.2		1	420045	JCG7	ELLE	09/15/23 10:31
Total/NA	Analysis	353.2		1	419027	USJM	ELLE	09/13/23 14:25
Total/NA	Prep	365.1			419672	NLE3	ELLE	09/14/23 20:30 - 09/14/23 21:30 [1]
Total/NA	Analysis	365.1		1	420117	JCG7	ELLE	09/15/23 12:25
Total/NA	Analysis	410.4		1	421045	USAE	ELLE	09/19/23 08:01
Total/NA	Analysis	420.4		1	419013	Q3HN	ELLE	09/13/23 12:52
Total/NA	Analysis	4500 H+ B-2011		1	420090	DI9Q	ELLE	09/15/23 14:14
Total/NA	Analysis	5210 B-2016		1	420953	B6LN	ELLE	09/13/23 21:35
Total/NA	Analysis	9060A		1	420413	P684	ELLE	09/14/23 21:15
Total/NA	Analysis	SM 2330B		1	413593	USJM	ELLE	09/13/23 05:23

Client Sample ID: QAQC_TB
Lab Sample ID: 410-142423-3
Date Collected: 09/06/23 00:00
Matrix: Water
Date Received: 09/12/23 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	420179	DVW2	ELLE	09/16/23 02:54
Total/NA	Analysis	8260D		1	420518	DVW2	ELLE	09/18/23 12:12

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142423-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

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
365.1	365.1	Groundwater	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile
624.1		Groundwater	Methyl iodide
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane
624.1		Groundwater	n-Propyl acetate
624.1		Groundwater	N-Propylbenzene
624.1		Groundwater	p-Isopropyltoluene

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
SM 2330B		Groundwater	Langelier Index

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142423-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	EPA	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C - 2015	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
2540F-2015	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	EPA	ELLE
420.4	Phenolics, Total Recoverable	EPA	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2016	BOD, 5-Day	SM	ELLE
9060A	Organic Carbon, Total (TOC)	SW846	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater ", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142423-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-142423-1	Outfall-01A	Groundwater	09/12/23 11:22	09/12/23 20:40
410-142423-2	Outfall-001	Groundwater	09/12/23 10:12	09/12/23 20:40
410-142423-3	QAQC_TB	Water	09/06/23 00:00	09/12/23 20:40

'equest/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13438

410-142423 Chain of Custody

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.		
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097
Consultant PM:	Courtney Lind	P.O. #: 0172 0030Y090	WAL# 5036
Sampler:	TG,NK	XOM PM:	Michael J Burghardt
Bill to:	☐ XOM ☑ Consultant		
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil/Sediment	Water	Other	Total # of Containers	VOCs (624.1) MEK, Acetone, MTBE (H)	200.8, 245.1 (N)	625.1_PREC - (MOD) Priority Pollutants SVOCs (S)	300_ORGFM_28D - (MOD) Chloride/Sulfate	SM5210B_Calc - BOD, 5-Day Only	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved (S)	351.2, 365.1, 410.4 (S)	2320B, 2510B, 2540C_SingleDry,	420.4 - Phenols (S)	353.2_Nitrite - Nitrogen, Nitrite	2540D_Single_Dry - TSS	SM2540F - Settleable Solids	Turbidity (180.1)	SM2330B - Local Method	2340C - Local Method (N)	Oil&Grease (1664A) (H)	RSK_175 Methane Ethane Ethene (H)	9060A - Organic Carbon, Total (TOC) (P)	8015C TPH-DRO/ORO Standard TPH-DRO/ORO (H)	TPH-GRO (8015) #10598 (H)
OUTFALL-01A	9/12/2023	11:22	X			X		29	6	1	2	1	1	1	2	2	1	1	1	1	1	1	2	2	2		
OUTFALL-001	9/12/2023	10:12	X			X		29	6	1	2	1	1	1	2	2	1	1	1	1	1	1	2	2	2		
QAQC_TB	9/6/2023	–					X	4	4																		

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

For Lab Use Only: SF #: _____ SCR #: _____

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☐ Rush ☑

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): (5 day) 4day 72hour 48hour 24hour

Data Package Options (please check if required)

- Type I (Validation/non-CLP) ☐
- Type III (Reduced non-CLP/NJ Reduced) ☐
- TX TRRP-13 ☐
- NJ DKQP ☐
- NYSDEC Category ☐ A ☐ B
- OTHER: Standard with QC summary

EDD Format(s) Needed: EQuIS and Excel

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/12/23	1620	RPM	12/9/23	1620
RPM	12/9/23	2040			

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0218 MK

Temp raw 1.1-4.7°C

Cor 0.9-4.6°C

CoC #4

Page 1 of 1

SR

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-142423-1

Login Number: 142423

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Cyms, Carolyn M

Question	Answer	Comment
The cooler's custody seal 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Matthew Mueller
Roux Environmental Eng & Geology DPC
209 Shafter St
Islandia, New York 11749

Generated 9/27/2023 2:33:36 AM

JOB DESCRIPTION

EMGPRP-31097

JOB NUMBER

410-142424-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

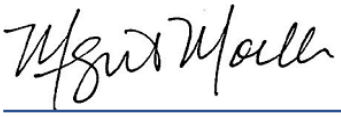
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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9/27/2023 2:33:36 AM

Authorized for release by
Megan Moeller, Client Services Manager
Megan.Moeller@et.eurofinsus.com
(717)556-7261

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

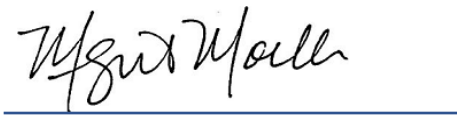

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
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
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC 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.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-142424-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-142424-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers 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 9/12/2023 8:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.9°C and 3.0°C

GC/MS VOA
Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following sample was received preserved with hydrochloric acid: QAQC_TB (410-142424-3). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile , which are acid-labile compounds that degrade in an acidic medium.

Method 624.1_PREC: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following samples were received preserved with hydrochloric acid: RCS Influent (410-142424-1) and RECEIVING-WATER-001 (410-142424-2). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile , which are acid-labile compounds that degrade in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 410-419674 recovered above the upper control limit for Benzoic acid. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Job ID: 410-142424-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Method 420.4: The following sample was diluted due to the nature of the sample matrix: RECEIVING-WATER-001 (410-142424-2). Elevated reporting limits (RLs) are provided.

Method SM5210B_Calc: All the dilutions failed to deplete the method-required 2 mgO2/L for the following samples: RECEIVING-WATER-001 (410-142424-2). Only a "less than" result could be calculated from the least dilute preparation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: RCS Influent

Lab Sample ID: 410-142424-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.63	J	1.0	0.30	ug/L	1		624.1	Total/NA
1,2,4-Trimethylbenzene	35		1.0	0.20	ug/L	1		624.1	Total/NA
1,2-Dichloroethene (total)	72		1.0	0.20	ug/L	1		624.1	Total/NA
1,3,5-Trimethylbenzene	15		1.0	0.20	ug/L	1		624.1	Total/NA
Benzene	73		1.0	0.25	ug/L	1		624.1	Total/NA
Chlorobenzene	0.32	J	1.0	0.20	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethene	71		1.0	0.20	ug/L	1		624.1	Total/NA
Cyclohexane	91		1.0	0.30	ug/L	1		624.1	Total/NA
Ethylbenzene	7.4		1.0	0.20	ug/L	1		624.1	Total/NA
Isopropylbenzene	6.4		2.0	0.50	ug/L	1		624.1	Total/NA
m&p-Xylene	49		1.0	0.30	ug/L	1		624.1	Total/NA
Naphthalene	22		1.0	0.20	ug/L	1		624.1	Total/NA
n-Butylbenzene	3.5		1.0	0.20	ug/L	1		624.1	Total/NA
n-Heptane	34		1.0	0.40	ug/L	1		624.1	Total/NA
n-Hexane	54		1.0	0.46	ug/L	1		624.1	Total/NA
N-Propylbenzene	7.2		1.0	0.20	ug/L	1		624.1	Total/NA
o-Xylene	9.1		1.0	0.20	ug/L	1		624.1	Total/NA
p-Isopropyltoluene	2.2		1.0	0.20	ug/L	1		624.1	Total/NA
sec-Butylbenzene	2.2		1.0	0.20	ug/L	1		624.1	Total/NA
t-Butyl alcohol	52		20	6.0	ug/L	1		624.1	Total/NA
tert-Butylbenzene	0.63	J	1.0	0.20	ug/L	1		624.1	Total/NA
Tetrachloroethene	280		1.0	0.30	ug/L	1		624.1	Total/NA
Toluene	3.7		1.0	0.20	ug/L	1		624.1	Total/NA
trans-1,2-Dichloroethene	0.58	J	1.0	0.30	ug/L	1		624.1	Total/NA
Trichloroethene	39		1.0	0.20	ug/L	1		624.1	Total/NA
Vinyl chloride	9.8		1.0	0.40	ug/L	1		624.1	Total/NA
Xylenes, Total	58		1.0	0.20	ug/L	1		624.1	Total/NA
Methyl tertiary butyl ether	5.7		1.0	0.20	ug/L	1		8260D	Total/NA
Acetone	12	J	20	0.70	ug/L	1		8260D	Total/NA
1-Methylnaphthalene	35		5.2	0.37	ug/L	1		625.1	Total/NA
1-Methylphenanthrene	2.5	J	5.2	0.52	ug/L	1		625.1	Total/NA
2-Methylnaphthalene	39		5.2	0.21	ug/L	1		625.1	Total/NA
Acenaphthene	4.7	J	5.2	0.26	ug/L	1		625.1	Total/NA
Anthracene	0.84	J	5.2	0.26	ug/L	1		625.1	Total/NA
Benzo[a]pyrene	0.35	J	5.2	0.26	ug/L	1		625.1	Total/NA
Carbazole	0.73	J	5.2	0.52	ug/L	1		625.1	Total/NA
Chrysene	0.28	J	5.2	0.21	ug/L	1		625.1	Total/NA
Fluoranthene	0.44	J	5.2	0.21	ug/L	1		625.1	Total/NA
Fluorene	4.5	J	5.2	0.21	ug/L	1		625.1	Total/NA
Naphthalene	7.6		2.1	0.31	ug/L	1		625.1	Total/NA
n-Tetradecane	5.9		5.2	0.52	ug/L	1		625.1	Total/NA
Phenanthrene	9.8		5.2	0.21	ug/L	1		625.1	Total/NA
Phenol	1.1		1.0	0.52	ug/L	1		625.1	Total/NA
Pyrene	1.4	J	5.2	0.26	ug/L	1		625.1	Total/NA
GRO (1C)	2200		50	23	ug/L	1		8015C	Total/NA
Ethane (1C)	1.8	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Ethene (1C)	1.2	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane (1C) - DL	2000		50	30	ug/L	10		RSK-175	Total/NA
DRO (C10-C28) (1C)	3.8		0.10	0.046	mg/L	1		8015C	Total/NA
>C28-C35 (1C)	0.11		0.10	0.046	mg/L	1		8015C	Total/NA
Sulfate	200		30	10	mg/L	20		EPA 300.0 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RCS Influent (Continued)

Lab Sample ID: 410-142424-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1100		750	300	mg/L	500		EPA 300.0 R2.1	Total/NA
Arsenic	4.9		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable
Barium	330		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	150000		1200	500	ug/L	10		200.8 Rev 5.4	Total Recoverable
Cobalt	1.6		0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	0.51	J	1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	4700		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	87000		50	16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	2800		2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	3.3		1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	19000		200	65	ug/L	1		200.8 Rev 5.4	Total Recoverable
Sodium	530000		2000	900	ug/L	10		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	2.9	J	5.4	1.5	mg/L	1		1664A	Total/NA
Turbidity	60		5.0	5.0	NTU	5		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	390		8.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Hardness	690		100	30	mg/L	10		2340C-2011	Total/NA
Specific Conductance	3900		5.0	1.7	umhos/cm	1		2510B-2011	Total/NA
Total Dissolved Solids	1300		240	96	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	8.1		3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	1.9		1.0	0.50	mg/L	1		351.2	Total/NA
Total Phosphorus as PO4	0.36		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	73	J	75	25	mg/L	1		410.4	Total/NA
pH	7.5	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	22.9	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Total Organic Carbon	6300		1000	500	ug/L	1		9060A	Total/NA
TOC Result 1	5800		1000	500	ug/L	1		9060A	Total/NA
TOC Result 2	6200		1000	500	ug/L	1		9060A	Total/NA
TOC Result 3	6600		1000	500	ug/L	1		9060A	Total/NA
TOC Result 4	6500		1000	500	ug/L	1		9060A	Total/NA
Langelier Index	-0.33				LangSU	1		SM 2330B	Total/NA

Client Sample ID: RECEIVING-WATER-001

Lab Sample ID: 410-142424-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.33	J	1.0	0.30	ug/L	1		624.1	Total/NA
Acetone	1.7	J	20	0.70	ug/L	1		8260D	Total/NA
Sulfate	2700		750	250	mg/L	500		EPA 300.0 R2.1	Total/NA
Chloride	11000		7500	3000	mg/L	5000		EPA 300.0 R2.1	Total/NA
Antimony	0.39	J	1.0	0.20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Aluminum	25	J	30	12	ug/L	1		200.8 Rev 5.4	Total Recoverable
Arsenic	2.1		2.0	0.68	ug/L	1		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: RECEIVING-WATER-001 (Continued)

Lab Sample ID: 410-142424-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	22		2.0	0.75	ug/L	1		200.8 Rev 5.4	Total Recoverable
Calcium	240000		12000	5000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Cobalt	0.17	J	0.50	0.16	ug/L	1		200.8 Rev 5.4	Total Recoverable
Copper	2.5		1.0	0.36	ug/L	1		200.8 Rev 5.4	Total Recoverable
Iron	170		50	20	ug/L	1		200.8 Rev 5.4	Total Recoverable
Lead	1.0		0.50	0.12	ug/L	1		200.8 Rev 5.4	Total Recoverable
Magnesium	680000		5000	1600	ug/L	100		200.8 Rev 5.4	Total Recoverable
Manganese	120	^2	2.0	0.95	ug/L	1		200.8 Rev 5.4	Total Recoverable
Nickel	0.78	J	1.0	0.40	ug/L	1		200.8 Rev 5.4	Total Recoverable
Potassium	210000		20000	6500	ug/L	100		200.8 Rev 5.4	Total Recoverable
Sodium	6000000		20000	9000	ug/L	100		200.8 Rev 5.4	Total Recoverable
Vanadium	1.7	J	4.0	0.79	ug/L	1		200.8 Rev 5.4	Total Recoverable
Zinc	12		10	4.0	ug/L	1		200.8 Rev 5.4	Total Recoverable
HEM (Oil & Grease)	2.2	J	5.5	1.5	mg/L	1		1664A	Total/NA
Turbidity	2.9		1.0	1.0	NTU	1		180.1	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		40	13	mg/L	5		2320B-2011	Total/NA
Total Hardness	3400	F1	250	75	mg/L	25		2340C-2011	Total/NA
Specific Conductance	41000		1000	340	umhos/cm	200		2510B-2011	Total/NA
Total Dissolved Solids	13000		2400	960	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	9.9		3.0	1.0	mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	0.95	J	1.0	0.50	mg/L	1		351.2	Total/NA
Nitrate as N	0.31		0.10	0.040	mg/L	1		353.2	Total/NA
Total Phosphorus as PO4	0.80		0.31	0.25	mg/L	1		365.1	Total/NA
Chemical Oxygen Demand	770		75	25	mg/L	1		410.4	Total/NA
pH	7.1	HF	0.01	0.01	S.U.	1		4500 H+ B-2011	Total/NA
Temperature	23.4	HF	0.01	0.01	Degrees C	1		4500 H+ B-2011	Total/NA
Total Organic Carbon	2100		1000	500	ug/L	1		9060A	Total/NA
TOC Result 1	2100		1000	500	ug/L	1		9060A	Total/NA
TOC Result 2	2100		1000	500	ug/L	1		9060A	Total/NA
TOC Result 3	2100		1000	500	ug/L	1		9060A	Total/NA
TOC Result 4	2100		1000	500	ug/L	1		9060A	Total/NA
Langelier Index	-1.4				LangSU	1		SM 2330B	Total/NA

Client Sample ID: QAQC_TB

Lab Sample ID: 410-142424-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: RCS Influent
Date Collected: 09/12/23 09:35
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-1
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/21/23 14:34	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/21/23 14:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/21/23 14:34	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/21/23 14:34	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/21/23 14:34	1
1,1-Dichloroethene	**0.63**	**J**	1.0	0.30	ug/L			09/21/23 14:34	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/21/23 14:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 14:34	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/21/23 14:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 14:34	1
1,2,4-Trimethylbenzene	**35**		1.0	0.20	ug/L			09/21/23 14:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/21/23 14:34	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/21/23 14:34	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 14:34	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/21/23 14:34	1
1,2-Dichloroethene (total)	**72**		1.0	0.20	ug/L			09/21/23 14:34	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/21/23 14:34	1
1,3,5-Trimethylbenzene	**15**		1.0	0.20	ug/L			09/21/23 14:34	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 14:34	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/21/23 14:34	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 14:34	1
1,4-Dioxane	ND		100	82	ug/L			09/21/23 14:34	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/21/23 14:34	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/21/23 14:34	1
2-Chloroethyl vinyl ether	ND	cn	1.0	0.50	ug/L			09/21/23 14:34	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/21/23 14:34	1
2-Hexanone	ND		2.0	0.50	ug/L			09/21/23 14:34	1
2-Propanol	ND		20	8.0	ug/L			09/21/23 14:34	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/21/23 14:34	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/21/23 14:34	1
Acetonitrile	ND		50	14	ug/L			09/21/23 14:34	1
Benzene	**73**		1.0	0.25	ug/L			09/21/23 14:34	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/21/23 14:34	1
Bromobenzene	ND		1.0	0.20	ug/L			09/21/23 14:34	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/21/23 14:34	1
Bromoform	ND		1.0	0.30	ug/L			09/21/23 14:34	1
Bromomethane	ND		1.0	0.44	ug/L			09/21/23 14:34	1
Butyl acetate	ND		5.0	0.60	ug/L			09/21/23 14:34	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/21/23 14:34	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/21/23 14:34	1
Chlorobenzene	**0.32**	**J**	1.0	0.20	ug/L			09/21/23 14:34	1
Chloroethane	ND		1.0	0.44	ug/L			09/21/23 14:34	1
Chloroform	ND		1.0	0.30	ug/L			09/21/23 14:34	1
Chloromethane	ND		1.0	0.64	ug/L			09/21/23 14:34	1
cis-1,2-Dichloroethene	**71**		1.0	0.20	ug/L			09/21/23 14:34	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/21/23 14:34	1
Cyclohexane	**91**		1.0	0.30	ug/L			09/21/23 14:34	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/21/23 14:34	1
Dibromomethane	ND		1.0	0.20	ug/L			09/21/23 14:34	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: RCS Influent
Date Collected: 09/12/23 09:35
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-1
Matrix: Groundwater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/21/23 14:34	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/21/23 14:34	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/21/23 14:34	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/21/23 14:34	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/21/23 14:34	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/21/23 14:34	1
Ethylbenzene	**7.4**		1.0	0.20	ug/L			09/21/23 14:34	1
Freon 113	ND		1.0	0.30	ug/L			09/21/23 14:34	1
Freon 123a	ND		1.0	0.44	ug/L			09/21/23 14:34	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/21/23 14:34	1
Isobutyl alcohol	ND		50	12	ug/L			09/21/23 14:34	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/21/23 14:34	1
Isopropylbenzene	**6.4**		2.0	0.50	ug/L			09/21/23 14:34	1
m&p-Xylene	**49**		1.0	0.30	ug/L			09/21/23 14:34	1
Methacrylonitrile	ND		10	2.0	ug/L			09/21/23 14:34	1
Methyl iodide	ND		1.0	0.30	ug/L			09/21/23 14:34	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/21/23 14:34	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/21/23 14:34	1
Naphthalene	**22**		1.0	0.20	ug/L			09/21/23 14:34	1
n-Butylbenzene	**3.5**		1.0	0.20	ug/L			09/21/23 14:34	1
n-Heptane	**34**		1.0	0.40	ug/L			09/21/23 14:34	1
n-Hexane	**54**		1.0	0.46	ug/L			09/21/23 14:34	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/21/23 14:34	1
N-Propylbenzene	**7.2**		1.0	0.20	ug/L			09/21/23 14:34	1
o-Xylene	**9.1**		1.0	0.20	ug/L			09/21/23 14:34	1
p-Isopropyltoluene	**2.2**		1.0	0.20	ug/L			09/21/23 14:34	1
Propionitrile	ND		20	8.5	ug/L			09/21/23 14:34	1
sec-Butylbenzene	**2.2**		1.0	0.20	ug/L			09/21/23 14:34	1
Styrene	ND		1.0	0.20	ug/L			09/21/23 14:34	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/21/23 14:34	1
t-Butyl alcohol	**52**		20	6.0	ug/L			09/21/23 14:34	1
tert-Butylbenzene	**0.63**	**J**	1.0	0.20	ug/L			09/21/23 14:34	1
Tetrachloroethene	**280**		1.0	0.30	ug/L			09/21/23 14:34	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/21/23 14:34	1
Toluene	**3.7**		1.0	0.20	ug/L			09/21/23 14:34	1
trans-1,2-Dichloroethene	**0.58**	**J**	1.0	0.30	ug/L			09/21/23 14:34	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/21/23 14:34	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/21/23 14:34	1
Trichloroethene	**39**		1.0	0.20	ug/L			09/21/23 14:34	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/21/23 14:34	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/21/23 14:34	1
Vinyl chloride	**9.8**		1.0	0.40	ug/L			09/21/23 14:34	1
Xylenes, Total	**58**		1.0	0.20	ug/L			09/21/23 14:34	1
Acrolein	ND	cn	10	3.0	ug/L			09/21/23 14:34	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			09/21/23 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*09/21/23 14:34*	*1*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*09/21/23 14:34*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*		*09/21/23 14:34*	*1*

Client Sample ID: RCS Influent
Lab Sample ID: 410-142424-1
Date Collected: 09/12/23 09:35
Matrix: Groundwater
Date Received: 09/12/23 20:40

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*60 - 140*		*09/21/23 14:34*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**5.7**		1.0	0.20	ug/L			09/22/23 16:04	1
Acetone	**12**	**J**	20	0.70	ug/L			09/22/23 16:04	1
2-Butanone	ND		10	0.50	ug/L			09/22/23 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/22/23 16:04*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*09/22/23 16:04*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/22/23 16:04*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/22/23 16:04*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
1,2,4,5-Tetrachlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
1,2-Dichlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
1,2-Diphenylhydrazine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
1,3-Dichlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
1,4-Dichlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
1,4-Dioxane	ND		5.2	2.1	ug/L		09/14/23 15:25	09/15/23 02:10	1
1-Methylnaphthalene	**35**		5.2	0.37	ug/L		09/14/23 15:25	09/15/23 02:10	1
1-Methylphenanthrene	**2.5**	**J**	5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2,2'-oxybis[1-chloropropane]	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2,3,4,6-Tetrachlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2,3-Dichloroaniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2,4,5-Trichlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2,4,6-Trichlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2,4-Dichlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2,4-Dinitrophenol	ND		10	2.1	ug/L		09/14/23 15:25	09/15/23 02:10	1
2,4-Dinitrotoluene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2,6-Dichlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2,6-Dinitrotoluene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2-Chloronaphthalene	ND		5.2	1.0	ug/L		09/14/23 15:25	09/15/23 02:10	1
2-Chlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2-Methylnaphthalene	**39**		5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:10	1
2-Methylphenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2-Nitroaniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
2-Nitrophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
3,3'-Dichlorobenzidine	ND		5.2	0.84	ug/L		09/14/23 15:25	09/15/23 02:10	1
3-Nitroaniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
4,6-Dinitro-2-methylphenol	ND		10	2.1	ug/L		09/14/23 15:25	09/15/23 02:10	1
4-Bromophenyl-phenylether	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
4-Chloro-3-methylphenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
4-Chloroaniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
4-Chlorophenyl-phenylether	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: RCS Influent
Date Collected: 09/12/23 09:35
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-1
Matrix: Groundwater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
4-Nitroaniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
4-Nitrophenol	ND		5.2	0.94	ug/L		09/14/23 15:25	09/15/23 02:10	1
Acenaphthene	**4.7**	**J**	5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:10	1
Acenaphthylene	ND		5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:10	1
Acetophenone	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Aniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Anthracene	**0.84**	**J**	5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:10	1
a-Terpineol	ND		5.2	0.63	ug/L		09/14/23 15:25	09/15/23 02:10	1
Benzidine	ND		63	6.3	ug/L		09/14/23 15:25	09/15/23 02:10	1
Benzo[a]anthracene	ND		5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:10	1
Benzo[a]pyrene	**0.35**	**J**	5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:10	1
Benzo[b]fluoranthene	ND		5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:10	1
Benzo[g,h,i]perylene	ND		5.2	0.31	ug/L		09/14/23 15:25	09/15/23 02:10	1
Benzo[k]fluoranthene	ND		5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:10	1
Benzoic acid	ND	cn	31	4.2	ug/L		09/14/23 15:25	09/15/23 02:10	1
Benzyl alcohol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Bis(2-chloroethoxy)methane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Bis(2-chloroethyl)ether	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Bis(2-ethylhexyl) phthalate	ND		5.2	1.0	ug/L		09/14/23 15:25	09/15/23 02:10	1
Butylbenzylphthalate	ND		5.2	1.0	ug/L		09/14/23 15:25	09/15/23 02:10	1
Carbazole	**0.73**	**J**	5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Chrysene	**0.28**	**J**	5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:10	1
Dibenz(a,h)anthracene	ND		5.2	0.31	ug/L		09/14/23 15:25	09/15/23 02:10	1
Dibenzofuran	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Diethylphthalate	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Dimethylphthalate	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Di-n-butyl phthalate	ND		5.2	1.0	ug/L		09/14/23 15:25	09/15/23 02:10	1
Di-n-octyl phthalate	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Diphenyl ether	ND		5.2	0.78	ug/L		09/14/23 15:25	09/15/23 02:10	1
Fluoranthene	**0.44**	**J**	5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:10	1
Fluorene	**4.5**	**J**	5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:10	1
Hexachlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Hexachlorobutadiene	ND		2.1	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Hexachlorocyclopentadiene	ND		16	3.1	ug/L		09/14/23 15:25	09/15/23 02:10	1
Hexachloroethane	ND		2.1	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.31	ug/L		09/14/23 15:25	09/15/23 02:10	1
Isophorone	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Naphthalene	**7.6**		2.1	0.31	ug/L		09/14/23 15:25	09/15/23 02:10	1
n-Decane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
n-Docosane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
n-Eicosane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
n-Hexadecane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Nitrobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
N-Nitrosodiethylamine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
N-Nitrosodimethylamine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
N-Nitrosodi-n-butylamine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
N-Nitrosodi-n-propylamine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
N-Nitrosodiphenylamine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1

Client Sample ID: RCS Influent
Date Collected: 09/12/23 09:35
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-1
Matrix: Groundwater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
n-Octadecane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
n-Tetradecane	**5.9**		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
o-Toluidine	ND		5.2	1.0	ug/L		09/14/23 15:25	09/15/23 02:10	1
Pentachlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Pentachlorophenol	ND		5.2	0.84	ug/L		09/14/23 15:25	09/15/23 02:10	1
Phenanthrene	**9.8**		5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:10	1
Phenol	**1.1**		1.0	0.52	ug/L		09/14/23 15:25	09/15/23 02:10	1
Pyrene	**1.4**	**J**	5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:10	1
Pyridine	ND		10	0.84	ug/L		09/14/23 15:25	09/15/23 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*42*		*10 - 150*	*09/14/23 15:25*	*09/15/23 02:10*	*1*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*	*09/14/23 15:25*	*09/15/23 02:10*	*1*
2-Fluorophenol (Surr)	*25*		*10 - 83*	*09/14/23 15:25*	*09/15/23 02:10*	*1*
Nitrobenzene-d5 (Surr)	*68*		*41 - 121*	*09/14/23 15:25*	*09/15/23 02:10*	*1*
Phenol-d5 (Surr)	*33*		*10 - 63*	*09/14/23 15:25*	*09/15/23 02:10*	*1*
p-Terphenyl-d14 (Surr)	*79*		*28 - 134*	*09/14/23 15:25*	*09/15/23 02:10*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	**2200**		50	23	ug/L			09/19/23 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*91*		*63 - 135*		*09/19/23 23:16*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	**1.8**	**J**	5.0	1.0	ug/L		09/25/23 10:27	09/25/23 14:04	1
Ethene (1C)	**1.2**	**J**	5.0	1.0	ug/L		09/25/23 10:27	09/25/23 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*49*		*43 - 133*	*09/25/23 10:27*	*09/25/23 14:04*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (1C)	**2000**		50	30	ug/L		09/26/23 09:58	09/26/23 15:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*97*		*43 - 133*	*09/26/23 09:58*	*09/26/23 15:21*	*10*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	**3.8**		0.10	0.046	mg/L		09/15/23 08:06	09/16/23 04:14	1
>C28-C35 (1C)	**0.11**		0.10	0.046	mg/L		09/15/23 08:06	09/16/23 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*123*		*32 - 125*	*09/15/23 08:06*	*09/16/23 04:14*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**200**		30	10	mg/L			09/23/23 15:43	20

Client Sample ID: RCS Influent
Date Collected: 09/12/23 09:35
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Lab Sample ID: 410-142424-1
Matrix: Groundwater

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		750	300	mg/L			09/26/23 11:32	500

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		09/14/23 00:57	09/19/23 16:05	1
Aluminum	ND		30	12	ug/L		09/14/23 00:57	09/19/23 16:05	1
Arsenic	**4.9**		2.0	0.68	ug/L		09/14/23 00:57	09/19/23 16:05	1
Barium	**330**		2.0	0.75	ug/L		09/14/23 00:57	09/19/23 16:05	1
Beryllium	ND		0.50	0.12	ug/L		09/14/23 00:57	09/19/23 16:05	1
Cadmium	ND		0.50	0.15	ug/L		09/14/23 00:57	09/19/23 16:05	1
Calcium	**150000**		1200	500	ug/L		09/14/23 00:57	09/19/23 16:25	10
Chromium	ND		2.0	0.55	ug/L		09/14/23 00:57	09/19/23 16:05	1
Cobalt	**1.6**		0.50	0.16	ug/L		09/14/23 00:57	09/19/23 16:05	1
Copper	**0.51**	**J**	1.0	0.36	ug/L		09/14/23 00:57	09/19/23 16:05	1
Iron	**4700**		50	20	ug/L		09/14/23 00:57	09/19/23 16:05	1
Lead	ND		0.50	0.12	ug/L		09/14/23 00:57	09/19/23 16:05	1
Magnesium	**87000**		50	16	ug/L		09/14/23 00:57	09/19/23 16:05	1
Manganese	**2800**		2.0	0.95	ug/L		09/14/23 00:57	09/19/23 16:05	1
Nickel	**3.3**		1.0	0.40	ug/L		09/14/23 00:57	09/19/23 16:05	1
Potassium	**19000**		200	65	ug/L		09/14/23 00:57	09/19/23 16:05	1
Selenium	ND		1.0	0.28	ug/L		09/14/23 00:57	09/19/23 16:05	1
Silver	ND		0.50	0.10	ug/L		09/14/23 00:57	09/19/23 16:05	1
Sodium	**530000**		2000	900	ug/L		09/14/23 00:57	09/19/23 16:25	10
Thallium	ND		0.50	0.13	ug/L		09/14/23 00:57	09/19/23 16:05	1
Vanadium	ND		4.0	0.79	ug/L		09/14/23 00:57	09/19/23 16:05	1
Zinc	ND		10	4.0	ug/L		09/14/23 00:57	09/19/23 16:05	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		09/14/23 02:51	09/15/23 20:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	**2.9**	**J**	5.4	1.5	mg/L			09/21/23 17:42	1
Turbidity (EPA 180.1)	**60**		5.0	5.0	NTU			09/13/23 17:48	5
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**390**		8.0	2.6	mg/L			09/15/23 15:38	1
Total Hardness (SM 2340C-2011)	**690**		100	30	mg/L			09/26/23 05:03	10
Specific Conductance (SM 2510B-2011)	**3900**		5.0	1.7	umhos/cm			09/14/23 01:29	1
Total Dissolved Solids (SM 2540C - 2015)	**1300**		240	96	mg/L			09/13/23 16:47	1
Total Suspended Solids (SM 2540D-2015)	**8.1**		3.0	1.0	mg/L			09/14/23 09:06	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			09/13/23 17:20	1
Total Kjeldahl Nitrogen (EPA 351.2)	**1.9**		1.0	0.50	mg/L		09/19/23 15:45	09/20/23 10:18	1
Nitrate as N (EPA 353.2)	ND		0.10	0.040	mg/L			09/13/23 14:25	1
Total Phosphorus as PO4 (EPA 365.1)	**0.36**		0.31	0.25	mg/L		09/14/23 20:30	09/15/23 12:28	1
Chemical Oxygen Demand (EPA 410.4)	**73**	**J**	75	25	mg/L			09/19/23 11:58	1
Phenols, Total (EPA 420.4)	ND		0.020	0.010	mg/L			09/15/23 11:32	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: RCS Influent
Date Collected: 09/12/23 09:35
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-1
Matrix: Groundwater

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B-2011)	7.5	HF	0.01	0.01	S.U.			09/15/23 15:38	1
Temperature (SM 4500 H+ B-2011)	22.9	HF	0.01	0.01	Degrees C			09/15/23 15:38	1
Biochemical Oxygen Demand (SM 5210 B-2016)	ND		2.0	2.0	mg/L			09/13/23 21:35	1
Total Organic Carbon (SW846 9060A)	6300		1000	500	ug/L			09/15/23 20:01	1
TOC Result 1 (SW846 9060A)	5800		1000	500	ug/L			09/15/23 20:01	1
TOC Result 2 (SW846 9060A)	6200		1000	500	ug/L			09/15/23 20:01	1
TOC Result 3 (SW846 9060A)	6600		1000	500	ug/L			09/15/23 20:01	1
TOC Result 4 (SW846 9060A)	6500		1000	500	ug/L			09/15/23 20:01	1
Langelier Index (SM 2330B)	-0.33				LangSU			09/13/23 05:23	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: RECEIVING-WATER-001
Date Collected: 09/12/23 10:27
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-2
Matrix: Surface Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,1,1-Trichloroethane	ND	F1	1.0	0.30	ug/L			09/21/23 15:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/21/23 15:19	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/21/23 15:19	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/21/23 15:19	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/21/23 15:19	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/21/23 15:19	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/21/23 15:19	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/21/23 15:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
1,4-Dioxane	ND	F2	100	82	ug/L			09/21/23 15:19	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/21/23 15:19	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/21/23 15:19	1
2-Chloroethyl vinyl ether	ND	F1 cn	1.0	0.50	ug/L			09/21/23 15:19	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/21/23 15:19	1
2-Hexanone	ND		2.0	0.50	ug/L			09/21/23 15:19	1
2-Propanol	ND		20	8.0	ug/L			09/21/23 15:19	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/21/23 15:19	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/21/23 15:19	1
Acetonitrile	ND		50	14	ug/L			09/21/23 15:19	1
Benzene	ND		1.0	0.25	ug/L			09/21/23 15:19	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/21/23 15:19	1
Bromobenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/21/23 15:19	1
Bromoform	ND		1.0	0.30	ug/L			09/21/23 15:19	1
Bromomethane	ND		1.0	0.44	ug/L			09/21/23 15:19	1
Butyl acetate	ND		5.0	0.60	ug/L			09/21/23 15:19	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/21/23 15:19	1
Carbon tetrachloride	ND	F1	1.0	0.42	ug/L			09/21/23 15:19	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Chloroethane	ND		1.0	0.44	ug/L			09/21/23 15:19	1
Chloroform	**0.33**	**J**	1.0	0.30	ug/L			09/21/23 15:19	1
Chloromethane	ND		1.0	0.64	ug/L			09/21/23 15:19	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Cyclohexane	ND		1.0	0.30	ug/L			09/21/23 15:19	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Dibromomethane	ND		1.0	0.20	ug/L			09/21/23 15:19	1

Client Sample ID: RECEIVING-WATER-001
Date Collected: 09/12/23 10:27
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-2
Matrix: Surface Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/21/23 15:19	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/21/23 15:19	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/21/23 15:19	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/21/23 15:19	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/21/23 15:19	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Freon 113	ND		1.0	0.30	ug/L			09/21/23 15:19	1
Freon 123a	ND		1.0	0.44	ug/L			09/21/23 15:19	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Isobutyl alcohol	ND		50	12	ug/L			09/21/23 15:19	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/21/23 15:19	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/21/23 15:19	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/21/23 15:19	1
Methacrylonitrile	ND		10	2.0	ug/L			09/21/23 15:19	1
Methyl iodide	ND		1.0	0.30	ug/L			09/21/23 15:19	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/21/23 15:19	1
Naphthalene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
n-Heptane	ND		1.0	0.40	ug/L			09/21/23 15:19	1
n-Hexane	ND		1.0	0.46	ug/L			09/21/23 15:19	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/21/23 15:19	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
o-Xylene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Propionitrile	ND		20	8.5	ug/L			09/21/23 15:19	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Styrene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/21/23 15:19	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/21/23 15:19	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Tetrachloroethene	ND		1.0	0.30	ug/L			09/21/23 15:19	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/21/23 15:19	1
Toluene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/21/23 15:19	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/21/23 15:19	1
Trichloroethene	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/21/23 15:19	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/21/23 15:19	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/21/23 15:19	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/21/23 15:19	1
Acrolein	ND	cn	10	3.0	ug/L			09/21/23 15:19	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			09/21/23 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*		*09/21/23 15:19*	*1*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*09/21/23 15:19*	*1*
Dibromofluoromethane (Surr)	*115*		*60 - 140*		*09/21/23 15:19*	*1*

Client Sample ID: RECEIVING-WATER-001
Date Collected: 09/12/23 10:27
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Lab Sample ID: 410-142424-2
Matrix: Surface Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*60 - 140*		*09/21/23 15:19*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/22/23 16:26	1
Acetone	**1.7**	**J**	20	0.70	ug/L			09/22/23 16:26	1
2-Butanone	ND		10	0.50	ug/L			09/22/23 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*09/22/23 16:26*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/22/23 16:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/22/23 16:26*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/22/23 16:26*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
1,2,4,5-Tetrachlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
1,2-Dichlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
1,2-Diphenylhydrazine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
1,3-Dichlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
1,4-Dichlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
1,4-Dioxane	ND		5.2	2.1	ug/L		09/14/23 15:25	09/15/23 02:32	1
1-Methylnaphthalene	ND		5.2	0.36	ug/L		09/14/23 15:25	09/15/23 02:32	1
1-Methylphenanthrene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2,2'-oxybis[1-chloropropane]	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2,3,4,6-Tetrachlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2,3-Dichloroaniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2,4,5-Trichlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2,4,6-Trichlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2,4-Dichlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2,4-Dinitrophenol	ND		10	2.1	ug/L		09/14/23 15:25	09/15/23 02:32	1
2,4-Dinitrotoluene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2,6-Dichlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2,6-Dinitrotoluene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2-Chloronaphthalene	ND		5.2	1.0	ug/L		09/14/23 15:25	09/15/23 02:32	1
2-Chlorophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2-Methylnaphthalene	ND		5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:32	1
2-Methylphenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2-Nitroaniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
2-Nitrophenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
3,3'-Dichlorobenzidine	ND		5.2	0.83	ug/L		09/14/23 15:25	09/15/23 02:32	1
3-Nitroaniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
4,6-Dinitro-2-methylphenol	ND		10	2.1	ug/L		09/14/23 15:25	09/15/23 02:32	1
4-Bromophenyl-phenylether	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
4-Chloro-3-methylphenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
4-Chloroaniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
4-Chlorophenyl-phenylether	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: RECEIVING-WATER-001
Date Collected: 09/12/23 10:27
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-2
Matrix: Surface Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
4-Nitroaniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
4-Nitrophenol	ND		5.2	0.94	ug/L		09/14/23 15:25	09/15/23 02:32	1
Acenaphthene	ND		5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:32	1
Acenaphthylene	ND		5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:32	1
Acetophenone	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Aniline	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Anthracene	ND		5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:32	1
a-Terpineol	ND		5.2	0.63	ug/L		09/14/23 15:25	09/15/23 02:32	1
Benzidine	ND		63	6.3	ug/L		09/14/23 15:25	09/15/23 02:32	1
Benzo[a]anthracene	ND		5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:32	1
Benzo[a]pyrene	ND		5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:32	1
Benzo[b]fluoranthene	ND		5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:32	1
Benzo[g,h,i]perylene	ND		5.2	0.31	ug/L		09/14/23 15:25	09/15/23 02:32	1
Benzo[k]fluoranthene	ND		5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:32	1
Benzoic acid	ND	cn	31	4.2	ug/L		09/14/23 15:25	09/15/23 02:32	1
Benzyl alcohol	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Bis(2-chloroethoxy)methane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Bis(2-chloroethyl)ether	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Bis(2-ethylhexyl) phthalate	ND		5.2	1.0	ug/L		09/14/23 15:25	09/15/23 02:32	1
Butylbenzylphthalate	ND		5.2	1.0	ug/L		09/14/23 15:25	09/15/23 02:32	1
Carbazole	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Chrysene	ND		5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:32	1
Dibenz(a,h)anthracene	ND		5.2	0.31	ug/L		09/14/23 15:25	09/15/23 02:32	1
Dibenzofuran	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Diethylphthalate	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Dimethylphthalate	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Di-n-butyl phthalate	ND		5.2	1.0	ug/L		09/14/23 15:25	09/15/23 02:32	1
Di-n-octyl phthalate	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Diphenyl ether	ND		5.2	0.78	ug/L		09/14/23 15:25	09/15/23 02:32	1
Fluoranthene	ND		5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:32	1
Fluorene	ND		5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:32	1
Hexachlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Hexachlorobutadiene	ND		2.1	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Hexachlorocyclopentadiene	ND		16	3.1	ug/L		09/14/23 15:25	09/15/23 02:32	1
Hexachloroethane	ND		2.1	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.31	ug/L		09/14/23 15:25	09/15/23 02:32	1
Isophorone	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Naphthalene	ND		2.1	0.31	ug/L		09/14/23 15:25	09/15/23 02:32	1
n-Decane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
n-Docosane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
n-Eicosane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
n-Hexadecane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Nitrobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
N-Nitrosodiethylamine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
N-Nitrosodimethylamine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
N-Nitrosodi-n-butylamine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
N-Nitrosodi-n-propylamine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
N-Nitrosodiphenylamine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1

Client Sample ID: RECEIVING-WATER-001
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Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-2
Matrix: Surface Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
n-Octadecane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
n-Tetradecane	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
o-Toluidine	ND		5.2	1.0	ug/L		09/14/23 15:25	09/15/23 02:32	1
Pentachlorobenzene	ND		5.2	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Pentachlorophenol	ND		5.2	0.83	ug/L		09/14/23 15:25	09/15/23 02:32	1
Phenanthrene	ND		5.2	0.21	ug/L		09/14/23 15:25	09/15/23 02:32	1
Phenol	ND		1.0	0.52	ug/L		09/14/23 15:25	09/15/23 02:32	1
Pyrene	ND		5.2	0.26	ug/L		09/14/23 15:25	09/15/23 02:32	1
Pyridine	ND		10	0.83	ug/L		09/14/23 15:25	09/15/23 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*54*		*10 - 150*	*09/14/23 15:25*	*09/15/23 02:32*	*1*
2-Fluorobiphenyl (Surr)	*68*		*32 - 115*	*09/14/23 15:25*	*09/15/23 02:32*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 83*	*09/14/23 15:25*	*09/15/23 02:32*	*1*
Nitrobenzene-d5 (Surr)	*66*		*41 - 121*	*09/14/23 15:25*	*09/15/23 02:32*	*1*
Phenol-d5 (Surr)	*34*		*10 - 63*	*09/14/23 15:25*	*09/15/23 02:32*	*1*
p-Terphenyl-d14 (Surr)	*80*		*28 - 134*	*09/14/23 15:25*	*09/15/23 02:32*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	ND		50	23	ug/L			09/19/23 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*100*		*63 - 135*		*09/19/23 23:42*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		09/26/23 15:32	09/26/23 17:51	1
Ethene (1C)	ND		5.0	1.0	ug/L		09/26/23 15:32	09/26/23 17:51	1
Methane (1C)	ND		5.0	3.0	ug/L		09/26/23 15:32	09/26/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*61*		*43 - 133*	*09/26/23 15:32*	*09/26/23 17:51*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	ND		0.11	0.048	mg/L		09/15/23 08:06	09/16/23 04:37	1
>C28-C35 (1C)	ND		0.11	0.048	mg/L		09/15/23 08:06	09/16/23 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr) (1C)	*87*		*32 - 125*	*09/15/23 08:06*	*09/16/23 04:37*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2700**		750	250	mg/L			09/26/23 13:09	500
Chloride	**11000**		7500	3000	mg/L			09/23/23 13:43	5000

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.39**	**J**	1.0	0.20	ug/L		09/14/23 00:53	09/17/23 17:20	1
Aluminum	**25**	**J**	30	12	ug/L		09/14/23 00:53	09/17/23 17:20	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: RECEIVING-WATER-001
Date Collected: 09/12/23 10:27
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-2
Matrix: Surface Water

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		2.0	0.68	ug/L		09/14/23 00:53	09/17/23 17:20	1
Barium	22		2.0	0.75	ug/L		09/14/23 00:53	09/17/23 17:20	1
Beryllium	ND		0.50	0.12	ug/L		09/14/23 00:53	09/17/23 17:20	1
Cadmium	ND		0.50	0.15	ug/L		09/14/23 00:53	09/17/23 17:20	1
Calcium	240000		12000	5000	ug/L		09/14/23 00:53	09/17/23 19:26	100
Chromium	ND		2.0	0.55	ug/L		09/14/23 00:53	09/17/23 17:20	1
Cobalt	0.17	J	0.50	0.16	ug/L		09/14/23 00:53	09/17/23 17:20	1
Copper	2.5		1.0	0.36	ug/L		09/14/23 00:53	09/17/23 17:20	1
Iron	170		50	20	ug/L		09/14/23 00:53	09/17/23 17:20	1
Lead	1.0		0.50	0.12	ug/L		09/14/23 00:53	09/17/23 17:20	1
Magnesium	680000		5000	1600	ug/L		09/14/23 00:53	09/17/23 19:26	100
Manganese	120	^2	2.0	0.95	ug/L		09/14/23 00:53	09/17/23 17:20	1
Nickel	0.78	J	1.0	0.40	ug/L		09/14/23 00:53	09/17/23 17:20	1
Potassium	210000		20000	6500	ug/L		09/14/23 00:53	09/17/23 19:26	100
Selenium	ND		1.0	0.28	ug/L		09/14/23 00:53	09/17/23 17:20	1
Silver	ND		0.50	0.10	ug/L		09/14/23 00:53	09/17/23 17:20	1
Sodium	6000000		20000	9000	ug/L		09/14/23 00:53	09/20/23 10:49	100
Thallium	ND		0.50	0.13	ug/L		09/14/23 00:53	09/17/23 17:20	1
Vanadium	1.7	J	4.0	0.79	ug/L		09/14/23 00:53	09/17/23 17:20	1
Zinc	12		10	4.0	ug/L		09/14/23 00:53	09/17/23 17:20	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		09/14/23 02:51	09/15/23 20:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664A)	2.2	J	5.5	1.5	mg/L			09/21/23 17:42	1
Turbidity (EPA 180.1)	2.9		1.0	1.0	NTU			09/13/23 17:48	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	100		40	13	mg/L			09/15/23 10:02	5
Total Hardness (SM 2340C-2011)	3400	F1	250	75	mg/L			09/26/23 17:52	25
Specific Conductance (SM 2510B-2011)	41000		1000	340	umhos/cm			09/13/23 22:46	200
Total Dissolved Solids (SM 2540C - 2015)	13000		2400	960	mg/L			09/13/23 16:47	1
Total Suspended Solids (SM 2540D-2015)	9.9		3.0	1.0	mg/L			09/13/23 11:19	1
Settleable Solids (SM 2540F-2015)	ND		0.10	0.10	mL/L			09/13/23 17:20	1
Total Kjeldahl Nitrogen (EPA 351.2)	0.95	J	1.0	0.50	mg/L		09/19/23 15:45	09/20/23 10:20	1
Nitrate as N (EPA 353.2)	0.31		0.10	0.040	mg/L			09/13/23 14:25	1
Total Phosphorus as PO4 (EPA 365.1)	0.80		0.31	0.25	mg/L		09/14/23 20:30	09/15/23 12:28	1
Chemical Oxygen Demand (EPA 410.4)	770		75	25	mg/L			09/19/23 11:58	1
Phenols, Total (EPA 420.4)	ND	cn	0.10	0.050	mg/L			09/15/23 12:37	5
pH (SM 4500 H+ B-2011)	7.1	HF	0.01	0.01	S.U.			09/14/23 21:25	1
Temperature (SM 4500 H+ B-2011)	23.4	HF	0.01	0.01	Degrees C			09/14/23 21:25	1
Biochemical Oxygen Demand (SM 5210 B-2016)	ND	cn	20	20	mg/L			09/13/23 22:15	1
Total Organic Carbon (SW846 9060A)	2100		1000	500	ug/L			09/15/23 20:39	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: RECEIVING-WATER-001
Date Collected: 09/12/23 10:27
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-2
Matrix: Surface Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	2100		1000	500	ug/L			09/15/23 20:39	1
TOC Result 2 (SW846 9060A)	2100		1000	500	ug/L			09/15/23 20:39	1
TOC Result 3 (SW846 9060A)	2100		1000	500	ug/L			09/15/23 20:39	1
TOC Result 4 (SW846 9060A)	2100		1000	500	ug/L			09/15/23 20:39	1
Langelier Index (SM 2330B)	-1.4				LangSU			09/13/23 05:23	1

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: QAQC_TB
Date Collected: 09/06/23 00:00
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-3
Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/17/23 15:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/17/23 15:59	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/17/23 15:59	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/17/23 15:59	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/17/23 15:59	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/17/23 15:59	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/17/23 15:59	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/17/23 15:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
1,4-Dioxane	ND		100	82	ug/L			09/17/23 15:59	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/17/23 15:59	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/17/23 15:59	1
2-Chloroethyl vinyl ether	ND	cn	1.0	0.50	ug/L			09/17/23 15:59	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/17/23 15:59	1
2-Hexanone	ND		2.0	0.50	ug/L			09/17/23 15:59	1
2-Propanol	ND		20	8.0	ug/L			09/17/23 15:59	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/17/23 15:59	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/17/23 15:59	1
Acetonitrile	ND		50	14	ug/L			09/17/23 15:59	1
Benzene	ND		1.0	0.25	ug/L			09/17/23 15:59	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/17/23 15:59	1
Bromobenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/17/23 15:59	1
Bromoform	ND		1.0	0.30	ug/L			09/17/23 15:59	1
Bromomethane	ND		1.0	0.44	ug/L			09/17/23 15:59	1
Butyl acetate	ND		5.0	0.60	ug/L			09/17/23 15:59	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/17/23 15:59	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/17/23 15:59	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Chloroethane	ND		1.0	0.44	ug/L			09/17/23 15:59	1
Chloroform	ND		1.0	0.30	ug/L			09/17/23 15:59	1
Chloromethane	ND		1.0	0.64	ug/L			09/17/23 15:59	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Cyclohexane	ND		1.0	0.30	ug/L			09/17/23 15:59	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Dibromomethane	ND		1.0	0.20	ug/L			09/17/23 15:59	1

Client Sample ID: QAQC_TB
Date Collected: 09/06/23 00:00
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-3
Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/17/23 15:59	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/17/23 15:59	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/17/23 15:59	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/17/23 15:59	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/17/23 15:59	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Freon 113	ND		1.0	0.30	ug/L			09/17/23 15:59	1
Freon 123a	ND		1.0	0.44	ug/L			09/17/23 15:59	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Isobutyl alcohol	ND		50	12	ug/L			09/17/23 15:59	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/17/23 15:59	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/17/23 15:59	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/17/23 15:59	1
Methacrylonitrile	ND		10	2.0	ug/L			09/17/23 15:59	1
Methyl iodide	ND		1.0	0.30	ug/L			09/17/23 15:59	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/17/23 15:59	1
Naphthalene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
n-Heptane	ND		1.0	0.40	ug/L			09/17/23 15:59	1
n-Hexane	ND		1.0	0.46	ug/L			09/17/23 15:59	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/17/23 15:59	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
o-Xylene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Propionitrile	ND		20	8.5	ug/L			09/17/23 15:59	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Styrene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/17/23 15:59	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/17/23 15:59	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Tetrachloroethene	ND		1.0	0.30	ug/L			09/17/23 15:59	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/17/23 15:59	1
Toluene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/17/23 15:59	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/17/23 15:59	1
Trichloroethene	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/17/23 15:59	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/17/23 15:59	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/17/23 15:59	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/17/23 15:59	1
Acrolein	ND	cn	10	3.0	ug/L			09/17/23 15:59	1
Acrylonitrile	ND	cn	3.0	1.1	ug/L			09/17/23 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*09/17/23 15:59*	*1*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*09/17/23 15:59*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*		*09/17/23 15:59*	*1*

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: QAQC_TB
Date Collected: 09/06/23 00:00
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-3
Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*60 - 140*		*09/17/23 15:59*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/19/23 21:03	1
Acetone	ND		20	0.70	ug/L			09/19/23 21:03	1
2-Butanone	ND		10	0.50	ug/L			09/19/23 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*09/19/23 21:03*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/19/23 21:03*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/19/23 21:03*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/19/23 21:03*	*1*

Action Limit Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

Client Sample ID: RCS Influent
Lab Sample ID: 410-142424-1

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	2.9	J	mg/L	5	5.4	1664A	Total/NA

Client Sample ID: RECEIVING-WATER-001
Lab Sample ID: 410-142424-2

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	HEM 5 Limit	RL	Method	Prep Type
HEM (Oil & Grease)	2.2	J	mg/L	5	5.5	1664A	Total/NA

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-142424-1	RCS Influent	106	103	104	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-142424-2	RECEIVING-WATER-001	113	102	115	99
410-142424-2 MS	RECEIVING-WATER-001	106	99	108	101
410-142424-2 MSD	RECEIVING-WATER-001	102	100	108	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-142424-3	QAQC_TB	106	106	106	103
LCS 410-420317/1003	Lab Control Sample	110	102	102	109
LCS 410-420317/1004	Lab Control Sample	103	104	103	102
LCS 410-421977/1003	Lab Control Sample	102	101	105	99
LCS 410-421977/1004	Lab Control Sample	105	98	106	97
MB 410-420317/6	Method Blank	110	103	108	105
MB 410-421977/5	Method Blank	113	101	111	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-142424-1	RCS Influent	102	99	103	101

Surrogate Legend

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-142424-2	RECEIVING-WATER-001	106	100	102	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-142424-3	QAQC_TB	107	103	99	96
LCS 410-421245/4	Lab Control Sample	101	99	102	99
LCS 410-422576/4	Lab Control Sample	100	98	102	99
MB 410-421245/6	Method Blank	103	101	98	95
MB 410-422576/6	Method Blank	105	100	100	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)
410-142424-1	RCS Influent	42	78	25	68	33	79

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL	TPHd14		
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)		
410-142424-2	RECEIVING-WATER-001	54	68	38	66	34	80		

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL	TPHd14		
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)		
LCS 410-419582/2-A	Lab Control Sample	80	78	51	79	38	97		
LCS 410-419582/4-A	Lab Control Sample	79	78	46	76	34	92		
LCSD 410-419582/3-A	Lab Control Sample Dup	86	78	46	74	36	99		
LCSD 410-419582/5-A	Lab Control Sample Dup	71	77	52	76	40	91		
MB 410-419582/1-A	Method Blank	67	78	41	78	29	105		

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TFT-F1							
Lab Sample ID	Client Sample ID	(63-135)							
410-142424-1	RCS Influent	91							

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TFT-F1							
Lab Sample ID	Client Sample ID	(63-135)							
410-142424-2	RECEIVING-WATER-001	100							

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	TFT-F1 (63-135)								
LCS 410-421053/6	Lab Control Sample	90								
LCSD 410-421053/7	Lab Control Sample Dup	91								
MB 410-421053/5	Method Blank	99								

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	Propene1 (43-133)								
410-142424-1	RCS Influent	49								
410-142424-1 - DL	RCS Influent	97								

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Surface Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	Propene1 (43-133)								
410-142424-2	RECEIVING-WATER-001	61								

Surrogate Legend

Propene = Propene

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	Propene1 (43-133)								
LCS 410-423403/2-A	Lab Control Sample	103								
LCS 410-423842/2-A	Lab Control Sample	112								
LCS 410-423982/2-A	Lab Control Sample	114								
LCSD 410-423403/3-A	Lab Control Sample Dup	104								
LCSD 410-423842/3-A	Lab Control Sample Dup	115								
LCSD 410-423982/3-A	Lab Control Sample Dup	113								
MB 410-423403/1-A	Method Blank	100								
MB 410-423842/1-A	Method Blank	112								
MB 410-423982/1-A	Method Blank	116								

Surrogate Legend

Propene = Propene

Surrogate Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Groundwater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTP1
Lab Sample ID	Client Sample ID	(32-125)
410-142424-1	RCS Influent	123

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Surface Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTP1
Lab Sample ID	Client Sample ID	(32-125)
410-142424-2	RECEIVING-WATER-001	87

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTP1
Lab Sample ID	Client Sample ID	(32-125)
LCS 410-419812/2-A	Lab Control Sample	82
LCSD 410-419812/3-A	Lab Control Sample Dup	79
MB 410-419812/1-A	Method Blank	73

Surrogate Legend

OTP = o- terphenyl (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-420317/6
Matrix: Water
Analysis Batch: 420317

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/17/23 15:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/17/23 15:14	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/17/23 15:14	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/17/23 15:14	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/17/23 15:14	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/17/23 15:14	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/17/23 15:14	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/17/23 15:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
1,4-Dioxane	ND		100	82	ug/L			09/17/23 15:14	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/17/23 15:14	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/17/23 15:14	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			09/17/23 15:14	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/17/23 15:14	1
2-Hexanone	ND		2.0	0.50	ug/L			09/17/23 15:14	1
2-Propanol	ND		20	8.0	ug/L			09/17/23 15:14	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/17/23 15:14	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/17/23 15:14	1
Acetonitrile	ND		50	14	ug/L			09/17/23 15:14	1
Benzene	ND		1.0	0.25	ug/L			09/17/23 15:14	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/17/23 15:14	1
Bromobenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/17/23 15:14	1
Bromoform	ND		1.0	0.30	ug/L			09/17/23 15:14	1
Bromomethane	ND		1.0	0.44	ug/L			09/17/23 15:14	1
Butyl acetate	ND		5.0	0.60	ug/L			09/17/23 15:14	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/17/23 15:14	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/17/23 15:14	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Chloroethane	ND		1.0	0.44	ug/L			09/17/23 15:14	1
Chloroform	ND		1.0	0.30	ug/L			09/17/23 15:14	1
Chloromethane	ND		1.0	0.64	ug/L			09/17/23 15:14	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Cyclohexane	ND		1.0	0.30	ug/L			09/17/23 15:14	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/17/23 15:14	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-420317/6
Matrix: Water
Analysis Batch: 420317

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/17/23 15:14	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/17/23 15:14	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/17/23 15:14	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/17/23 15:14	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/17/23 15:14	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Freon 113	ND		1.0	0.30	ug/L			09/17/23 15:14	1
Freon 123a	ND		1.0	0.44	ug/L			09/17/23 15:14	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Isobutyl alcohol	ND		50	12	ug/L			09/17/23 15:14	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/17/23 15:14	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/17/23 15:14	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/17/23 15:14	1
Methacrylonitrile	ND		10	2.0	ug/L			09/17/23 15:14	1
Methyl iodide	ND		1.0	0.30	ug/L			09/17/23 15:14	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/17/23 15:14	1
Naphthalene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
n-Heptane	ND		1.0	0.40	ug/L			09/17/23 15:14	1
n-Hexane	ND		1.0	0.46	ug/L			09/17/23 15:14	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/17/23 15:14	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
o-Xylene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Propionitrile	ND		20	8.5	ug/L			09/17/23 15:14	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Styrene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/17/23 15:14	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/17/23 15:14	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Tetrachloroethene	ND		1.0	0.30	ug/L			09/17/23 15:14	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/17/23 15:14	1
Toluene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/17/23 15:14	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/17/23 15:14	1
Trichloroethene	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/17/23 15:14	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/17/23 15:14	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/17/23 15:14	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/17/23 15:14	1
Acrolein	ND		10	3.0	ug/L			09/17/23 15:14	1
Acrylonitrile	ND		3.0	1.1	ug/L			09/17/23 15:14	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-420317/6
Matrix: Water
Analysis Batch: 420317

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		60 - 140		09/17/23 15:14	1
4-Bromofluorobenzene (Surr)	103		60 - 140		09/17/23 15:14	1
Dibromofluoromethane (Surr)	108		60 - 140		09/17/23 15:14	1
Toluene-d8 (Surr)	105		60 - 140		09/17/23 15:14	1

Lab Sample ID: LCS 410-420317/1003
Matrix: Water
Analysis Batch: 420317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	22.8		ug/L		114	60 - 140
1,1,1-Trichloroethane	20.0	21.8		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.9		ug/L		110	60 - 140
1,1,2-Trichloroethane	20.0	22.9		ug/L		114	70 - 130
1,1-Dichloroethane	20.0	18.5		ug/L		92	70 - 130
1,1-Dichloroethene	20.0	17.7		ug/L		89	50 - 150
1,1-Dichloropropene	20.0	22.7		ug/L		113	60 - 140
1,2,3-Trichlorobenzene	20.0	19.6		ug/L		98	60 - 140
1,2,3-Trichloropropane	20.0	21.5		ug/L		108	60 - 140
1,2,4-Trichlorobenzene	20.0	18.7		ug/L		94	60 - 140
1,2,4-Trimethylbenzene	20.0	21.4		ug/L		107	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	21.4		ug/L		107	60 - 140
1,2-Dibromoethane	20.0	22.6		ug/L		113	60 - 140
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	65 - 135
1,2-Dichloroethane	20.0	21.9		ug/L		109	70 - 130
1,2-Dichloroethene (total)	40.0	39.2		ug/L		98	60 - 140
1,2-Dichloropropane	20.0	22.3		ug/L		112	35 - 165
1,3,5-Trimethylbenzene	20.0	21.5		ug/L		107	60 - 140
1,3-Dichlorobenzene	20.0	20.0		ug/L		100	70 - 130
1,3-Dichloropropane	20.0	23.2		ug/L		116	60 - 140
1,4-Dichlorobenzene	20.0	21.5		ug/L		107	65 - 135
1,4-Dioxane	500	518		ug/L		104	60 - 140
2,2-Dichloropropane	20.0	20.2		ug/L		101	60 - 140
2-Chloro-1,3-butadiene	20.0	17.8		ug/L		89	60 - 140
2-Chlorotoluene	20.0	21.8		ug/L		109	60 - 140
2-Hexanone	250	281		ug/L		112	60 - 140
2-Propanol	150	123		ug/L		82	60 - 140
4-Chlorotoluene	20.0	21.9		ug/L		109	60 - 140
4-Methyl-2-pentanone	250	296		ug/L		119	60 - 140
Benzene	20.0	23.6		ug/L		118	65 - 135
Benzyl chloride	20.0	21.8		ug/L		109	60 - 140
Bromobenzene	20.0	21.5		ug/L		107	60 - 140
Bromodichloromethane	20.0	22.9		ug/L		114	65 - 135
Bromoform	20.0	22.8		ug/L		114	70 - 130
Bromomethane	20.0	17.8		ug/L		89	15 - 185
Carbon disulfide	20.0	18.5		ug/L		92	60 - 140
Carbon tetrachloride	20.0	23.6		ug/L		118	70 - 130
Chlorobenzene	20.0	22.1		ug/L		110	65 - 135

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-420317/1003
Matrix: Water
Analysis Batch: 420317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	20.0	17.8		ug/L		89	40 - 160
Chloroform	20.0	21.9		ug/L		110	70 - 135
Chloromethane	20.0	21.9		ug/L		109	10 - 200
cis-1,2-Dichloroethene	20.0	17.9		ug/L		90	60 - 140
cis-1,3-Dichloropropene	20.0	21.8		ug/L		109	25 - 175
Cyclohexane	20.0	21.5		ug/L		108	60 - 140
Dibromochloromethane	20.0	22.8		ug/L		114	70 - 135
Dibromomethane	20.0	23.4		ug/L		117	60 - 140
Dichlorodifluoromethane	20.0	23.7		ug/L		119	60 - 140
Dichlorofluoromethane	20.0	16.9		ug/L		84	60 - 140
di-Isopropyl ether	20.0	14.9		ug/L		75	60 - 140
Ethyl methacrylate	20.0	20.3		ug/L		102	60 - 140
Ethyl t-butyl ether	20.0	18.0		ug/L		90	60 - 140
Ethylbenzene	20.0	22.7		ug/L		113	60 - 140
Freon 113	20.0	18.3		ug/L		92	60 - 140
Freon 123a	20.0	15.0		ug/L		75	60 - 140
Hexachlorobutadiene	20.0	18.6		ug/L		93	60 - 140
Isobutyl alcohol	500	567		ug/L		113	60 - 140
Isopropylbenzene	20.0	21.6		ug/L		108	60 - 140
m&p-Xylene	40.0	45.1		ug/L		113	60 - 140
Methacrylonitrile	150	183		ug/L		122	60 - 140
Methyl iodide	20.0	17.2		ug/L		86	60 - 140
Methyl methacrylate	20.0	21.2		ug/L		106	60 - 140
Methylene Chloride	20.0	20.9		ug/L		105	60 - 140
Naphthalene	20.0	19.0		ug/L		95	60 - 140
n-Butylbenzene	20.0	22.2		ug/L		111	60 - 140
n-Heptane	20.0	17.7		ug/L		89	60 - 140
n-Hexane	20.0	19.0		ug/L		95	60 - 140
N-Propylbenzene	20.0	22.7		ug/L		113	60 - 140
o-Xylene	20.0	21.5		ug/L		108	60 - 140
p-Isopropyltoluene	20.0	21.1		ug/L		106	60 - 140
Propionitrile	150	185		ug/L		124	60 - 140
sec-Butylbenzene	20.0	21.2		ug/L		106	60 - 140
Styrene	20.0	22.1		ug/L		111	60 - 140
t-Amyl methyl ether	20.0	20.8		ug/L		104	60 - 140
t-Butyl alcohol	200	272		ug/L		136	60 - 140
tert-Butylbenzene	20.0	21.0		ug/L		105	60 - 140
Tetrachloroethene	20.0	21.1		ug/L		105	70 - 130
Tetrahydrofuran	100	113		ug/L		113	60 - 140
Toluene	20.0	23.8		ug/L		119	70 - 130
trans-1,2-Dichloroethene	20.0	21.3		ug/L		106	70 - 130
trans-1,3-Dichloropropene	20.0	22.3		ug/L		112	50 - 150
trans-1,4-Dichloro-2-butene	100	122		ug/L		122	60 - 140
Trichloroethene	20.0	21.1		ug/L		106	65 - 135
Trichlorofluoromethane	20.0	18.3		ug/L		91	50 - 150
Vinyl chloride	20.0	21.1		ug/L		106	10 - 195
Xylenes, Total	60.0	66.6		ug/L		111	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-420317/1003
Matrix: Water
Analysis Batch: 420317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		60 - 140
4-Bromofluorobenzene (Surr)	102		60 - 140
Dibromofluoromethane (Surr)	102		60 - 140
Toluene-d8 (Surr)	109		60 - 140

Lab Sample ID: LCS 410-420317/1004
Matrix: Water
Analysis Batch: 420317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	150	112		ug/L		75	60 - 140
Butyl acetate	20.0	16.8		ug/L		84	60 - 140
Ethyl acetate	20.0	15.8		ug/L		79	60 - 140
Isopropyl acetate	20.0	18.3		ug/L		92	60 - 140
n-Propyl acetate	20.0	17.5		ug/L		87	60 - 140
Vinyl acetate	100	70.7		ug/L		71	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
4-Bromofluorobenzene (Surr)	104		60 - 140
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	102		60 - 140

Lab Sample ID: MB 410-421977/5
Matrix: Water
Analysis Batch: 421977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			09/21/23 09:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			09/21/23 09:12	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			09/21/23 09:12	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			09/21/23 09:12	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/21/23 09:12	1
1,1-Dichloropropene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,2,3-Trichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,2,4-Trimethylbenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/21/23 09:12	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/21/23 09:12	1
1,2-Dichloroethene (total)	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			09/21/23 09:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,3-Dichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,3-Dichloropropane	ND		1.0	0.20	ug/L			09/21/23 09:12	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-421977/5
Matrix: Water
Analysis Batch: 421977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
1,4-Dioxane	ND		100	82	ug/L			09/21/23 09:12	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/21/23 09:12	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			09/21/23 09:12	1
2-Chloroethyl vinyl ether	ND		1.0	0.50	ug/L			09/21/23 09:12	1
2-Chlorotoluene	ND		1.0	0.50	ug/L			09/21/23 09:12	1
2-Hexanone	ND		2.0	0.50	ug/L			09/21/23 09:12	1
2-Propanol	ND		20	8.0	ug/L			09/21/23 09:12	1
4-Chlorotoluene	ND		1.0	0.50	ug/L			09/21/23 09:12	1
4-Methyl-2-pentanone	ND		2.0	0.50	ug/L			09/21/23 09:12	1
Acetonitrile	ND		50	14	ug/L			09/21/23 09:12	1
Benzene	ND		1.0	0.25	ug/L			09/21/23 09:12	1
Benzyl chloride	ND		1.0	0.25	ug/L			09/21/23 09:12	1
Bromobenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Bromodichloromethane	ND		1.0	0.30	ug/L			09/21/23 09:12	1
Bromoform	ND		1.0	0.30	ug/L			09/21/23 09:12	1
Bromomethane	ND		1.0	0.44	ug/L			09/21/23 09:12	1
Butyl acetate	ND		5.0	0.60	ug/L			09/21/23 09:12	1
Carbon disulfide	ND		1.0	0.45	ug/L			09/21/23 09:12	1
Carbon tetrachloride	ND		1.0	0.42	ug/L			09/21/23 09:12	1
Chlorobenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Chloroethane	ND		1.0	0.44	ug/L			09/21/23 09:12	1
Chloroform	ND		1.0	0.30	ug/L			09/21/23 09:12	1
Chloromethane	ND		1.0	0.64	ug/L			09/21/23 09:12	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Cyclohexane	ND		1.0	0.30	ug/L			09/21/23 09:12	1
Dibromochloromethane	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Dibromomethane	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Dichlorodifluoromethane	ND		1.0	0.60	ug/L			09/21/23 09:12	1
Dichlorofluoromethane	ND		1.0	0.42	ug/L			09/21/23 09:12	1
di-Isopropyl ether	ND		1.0	0.30	ug/L			09/21/23 09:12	1
Ethyl acetate	ND		5.0	0.80	ug/L			09/21/23 09:12	1
Ethyl methacrylate	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Ethyl t-butyl ether	ND		1.0	0.30	ug/L			09/21/23 09:12	1
Ethylbenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Freon 113	ND		1.0	0.30	ug/L			09/21/23 09:12	1
Freon 123a	ND		1.0	0.44	ug/L			09/21/23 09:12	1
Hexachlorobutadiene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Isobutyl alcohol	ND		50	12	ug/L			09/21/23 09:12	1
Isopropyl acetate	ND		5.0	0.60	ug/L			09/21/23 09:12	1
Isopropylbenzene	ND		2.0	0.50	ug/L			09/21/23 09:12	1
m&p-Xylene	ND		1.0	0.30	ug/L			09/21/23 09:12	1
Methacrylonitrile	ND		10	2.0	ug/L			09/21/23 09:12	1
Methyl iodide	ND		1.0	0.30	ug/L			09/21/23 09:12	1
Methyl methacrylate	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Methylene Chloride	ND		1.0	0.30	ug/L			09/21/23 09:12	1
Naphthalene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
n-Butylbenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-421977/5
Matrix: Water
Analysis Batch: 421977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	ND		1.0	0.40	ug/L			09/21/23 09:12	1
n-Hexane	ND		1.0	0.46	ug/L			09/21/23 09:12	1
n-Propyl acetate	ND		5.0	0.60	ug/L			09/21/23 09:12	1
N-Propylbenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
o-Xylene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
p-Isopropyltoluene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Propionitrile	ND		20	8.5	ug/L			09/21/23 09:12	1
sec-Butylbenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Styrene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
t-Amyl methyl ether	ND		1.0	0.20	ug/L			09/21/23 09:12	1
t-Butyl alcohol	ND		20	6.0	ug/L			09/21/23 09:12	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Tetrachloroethene	ND		1.0	0.30	ug/L			09/21/23 09:12	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			09/21/23 09:12	1
Toluene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			09/21/23 09:12	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
trans-1,4-Dichloro-2-butene	ND		10	3.0	ug/L			09/21/23 09:12	1
Trichloroethene	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Trichlorofluoromethane	ND		1.0	0.40	ug/L			09/21/23 09:12	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/21/23 09:12	1
Vinyl chloride	ND		1.0	0.40	ug/L			09/21/23 09:12	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/21/23 09:12	1
Acrolein	ND		10	3.0	ug/L			09/21/23 09:12	1
Acrylonitrile	ND		3.0	1.1	ug/L			09/21/23 09:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*		*09/21/23 09:12*	*1*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*		*09/21/23 09:12*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*		*09/21/23 09:12*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*09/21/23 09:12*	*1*

Lab Sample ID: LCS 410-421977/1003
Matrix: Water
Analysis Batch: 421977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	21.1		ug/L		105	60 - 140
1,1,1-Trichloroethane	20.0	23.3		ug/L		116	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.8		ug/L		99	60 - 140
1,1,2-Trichloroethane	20.0	19.1		ug/L		95	70 - 130
1,1-Dichloroethane	20.0	21.4		ug/L		107	70 - 130
1,1-Dichloroethene	20.0	20.1		ug/L		101	50 - 150
1,1-Dichloropropene	20.0	22.4		ug/L		112	60 - 140
1,2,3-Trichlorobenzene	20.0	18.7		ug/L		94	60 - 140
1,2,3-Trichloropropane	20.0	19.5		ug/L		98	60 - 140
1,2,4-Trichlorobenzene	20.0	16.9		ug/L		84	60 - 140
1,2,4-Trimethylbenzene	20.0	19.1		ug/L		96	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-421977/1003
Matrix: Water
Analysis Batch: 421977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	20.0	19.9		ug/L		99	60 - 140
1,2-Dibromoethane	20.0	19.9		ug/L		100	60 - 140
1,2-Dichlorobenzene	20.0	18.8		ug/L		94	65 - 135
1,2-Dichloroethane	20.0	23.3		ug/L		117	70 - 130
1,2-Dichloroethene (total)	40.0	42.0		ug/L		105	60 - 140
1,2-Dichloropropane	20.0	21.9		ug/L		110	35 - 165
1,3,5-Trimethylbenzene	20.0	19.4		ug/L		97	60 - 140
1,3-Dichlorobenzene	20.0	18.5		ug/L		92	70 - 130
1,3-Dichloropropane	20.0	19.9		ug/L		100	60 - 140
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	65 - 135
1,4-Dioxane	500	308		ug/L		62	60 - 140
2,2-Dichloropropane	20.0	22.7		ug/L		113	60 - 140
2-Chloro-1,3-butadiene	20.0	21.2		ug/L		106	60 - 140
2-Chlorotoluene	20.0	19.6		ug/L		98	60 - 140
2-Hexanone	250	233		ug/L		93	60 - 140
2-Propanol	150	108		ug/L		72	60 - 140
4-Chlorotoluene	20.0	20.4		ug/L		102	60 - 140
4-Methyl-2-pentanone	250	237		ug/L		95	60 - 140
Benzene	20.0	24.0		ug/L		120	65 - 135
Benzyl chloride	20.0	19.7		ug/L		98	60 - 140
Bromobenzene	20.0	19.4		ug/L		97	60 - 140
Bromodichloromethane	20.0	23.8		ug/L		119	65 - 135
Bromoform	20.0	20.8		ug/L		104	70 - 130
Bromomethane	20.0	22.6		ug/L		113	15 - 185
Carbon disulfide	20.0	22.4		ug/L		112	60 - 140
Carbon tetrachloride	20.0	24.6		ug/L		123	70 - 130
Chlorobenzene	20.0	20.0		ug/L		100	65 - 135
Chloroethane	20.0	23.1		ug/L		115	40 - 160
Chloroform	20.0	23.3		ug/L		116	70 - 135
Chloromethane	20.0	24.5		ug/L		122	10 - 200
cis-1,2-Dichloroethene	20.0	20.8		ug/L		104	60 - 140
cis-1,3-Dichloropropene	20.0	18.3		ug/L		92	25 - 175
Cyclohexane	20.0	18.8		ug/L		94	60 - 140
Dibromochloromethane	20.0	20.7		ug/L		103	70 - 135
Dibromomethane	20.0	22.8		ug/L		114	60 - 140
Dichlorodifluoromethane	20.0	21.4		ug/L		107	60 - 140
Dichlorofluoromethane	20.0	21.5		ug/L		108	60 - 140
di-Isopropyl ether	20.0	18.5		ug/L		92	60 - 140
Ethyl methacrylate	20.0	17.0		ug/L		85	60 - 140
Ethyl t-butyl ether	20.0	20.5		ug/L		102	60 - 140
Ethylbenzene	20.0	19.8		ug/L		99	60 - 140
Freon 113	20.0	20.1		ug/L		101	60 - 140
Freon 123a	20.0	19.1		ug/L		96	60 - 140
Hexachlorobutadiene	20.0	18.4		ug/L		92	60 - 140
Isobutyl alcohol	500	461		ug/L		92	60 - 140
Isopropylbenzene	20.0	18.7		ug/L		94	60 - 140
m&p-Xylene	40.0	41.2		ug/L		103	60 - 140
Methacrylonitrile	150	177		ug/L		118	60 - 140
Methyl iodide	20.0	21.4		ug/L		107	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-421977/1003
Matrix: Water
Analysis Batch: 421977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl methacrylate	20.0	19.9		ug/L		100	60 - 140
Methylene Chloride	20.0	19.7		ug/L		98	60 - 140
Naphthalene	20.0	17.0		ug/L		85	60 - 140
n-Butylbenzene	20.0	19.3		ug/L		96	60 - 140
n-Heptane	20.0	15.5		ug/L		78	60 - 140
n-Hexane	20.0	15.5		ug/L		78	60 - 140
N-Propylbenzene	20.0	20.2		ug/L		101	60 - 140
o-Xylene	20.0	19.0		ug/L		95	60 - 140
p-Isopropyltoluene	20.0	18.6		ug/L		93	60 - 140
Propionitrile	150	172		ug/L		114	60 - 140
sec-Butylbenzene	20.0	18.9		ug/L		94	60 - 140
Styrene	20.0	20.0		ug/L		100	60 - 140
t-Amyl methyl ether	20.0	19.9		ug/L		99	60 - 140
t-Butyl alcohol	200	203		ug/L		101	60 - 140
tert-Butylbenzene	20.0	18.3		ug/L		92	60 - 140
Tetrachloroethene	20.0	19.2		ug/L		96	70 - 130
Tetrahydrofuran	100	99.0		ug/L		99	60 - 140
Toluene	20.0	21.0		ug/L		105	70 - 130
trans-1,2-Dichloroethene	20.0	21.2		ug/L		106	70 - 130
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	50 - 150
trans-1,4-Dichloro-2-butene	100	93.0		ug/L		93	60 - 140
Trichloroethene	20.0	23.0		ug/L		115	65 - 135
Trichlorofluoromethane	20.0	20.8		ug/L		104	50 - 150
Vinyl chloride	20.0	21.6		ug/L		108	10 - 195
Xylenes, Total	60.0	60.2		ug/L		100	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*
Dibromofluoromethane (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: LCS 410-421977/1004
Matrix: Water
Analysis Batch: 421977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	150	113		ug/L		75	60 - 140
Butyl acetate	20.0	13.9		ug/L		70	60 - 140
Ethyl acetate	20.0	20.4		ug/L		102	60 - 140
Isopropyl acetate	20.0	17.4		ug/L		87	60 - 140
n-Propyl acetate	20.0	15.5		ug/L		77	60 - 140
Vinyl acetate	100	97.1		ug/L		97	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*
Dibromofluoromethane (Surr)	*106*		*60 - 140*

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-421977/1004
Matrix: Water
Analysis Batch: 421977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*97*		*60 - 140*

Lab Sample ID: 410-142424-2 MS
Matrix: Surface Water
Analysis Batch: 421977

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		20.0	22.2		ug/L		111	60 - 140
1,1,1-Trichloroethane	ND	F1	20.0	25.0		ug/L		125	70 - 130
1,1,2,2-Tetrachloroethane	ND		20.0	19.6		ug/L		98	60 - 140
1,1,2-Trichloroethane	ND		20.0	21.8		ug/L		109	70 - 130
1,1-Dichloroethane	ND		20.0	23.6		ug/L		118	70 - 130
1,1-Dichloroethene	ND		20.0	22.7		ug/L		113	50 - 150
1,1-Dichloropropene	ND		20.0	24.6		ug/L		123	60 - 140
1,2,3-Trichlorobenzene	ND		20.0	18.3		ug/L		91	60 - 140
1,2,3-Trichloropropane	ND		20.0	19.2		ug/L		96	60 - 140
1,2,4-Trichlorobenzene	ND		20.0	16.4		ug/L		82	60 - 140
1,2,4-Trimethylbenzene	ND		20.0	19.4		ug/L		97	60 - 140
1,2-Dibromo-3-Chloropropane	ND		20.0	19.8		ug/L		99	60 - 140
1,2-Dibromoethane	ND		20.0	21.5		ug/L		108	60 - 140
1,2-Dichlorobenzene	ND		20.0	19.6		ug/L		98	65 - 135
1,2-Dichloroethane	ND		20.0	24.3		ug/L		121	70 - 130
1,2-Dichloroethene (total)	ND		40.0	45.5		ug/L		114	60 - 140
1,2-Dichloropropane	ND		20.0	23.8		ug/L		119	35 - 165
1,3,5-Trimethylbenzene	ND		20.0	19.9		ug/L		99	60 - 140
1,3-Dichlorobenzene	ND		20.0	18.6		ug/L		93	70 - 130
1,3-Dichloropropane	ND		20.0	21.4		ug/L		107	60 - 140
1,4-Dichlorobenzene	ND		20.0	20.6		ug/L		103	65 - 135
1,4-Dioxane	ND	F2	500	328		ug/L		66	60 - 140
2,2-Dichloropropane	ND		20.0	24.8		ug/L		124	60 - 140
2-Chloro-1,3-butadiene	ND		20.0	23.6		ug/L		118	60 - 140
2-Chlorotoluene	ND		20.0	20.2		ug/L		101	60 - 140
2-Hexanone	ND		250	288		ug/L		115	60 - 140
2-Propanol	ND		150	116		ug/L		78	60 - 140
4-Chlorotoluene	ND		20.0	20.4		ug/L		102	60 - 140
4-Methyl-2-pentanone	ND		250	285		ug/L		114	60 - 140
Benzene	ND		20.0	25.5		ug/L		128	65 - 135
Benzyl chloride	ND		20.0	20.7		ug/L		103	60 - 140
Bromobenzene	ND		20.0	20.5		ug/L		103	60 - 140
Bromodichloromethane	ND		20.0	25.4		ug/L		127	65 - 135
Bromoform	ND		20.0	21.8		ug/L		109	70 - 130
Bromomethane	ND		20.0	22.3		ug/L		111	15 - 185
Carbon disulfide	ND		20.0	23.6		ug/L		118	60 - 140
Carbon tetrachloride	ND	F1	20.0	27.7	F1	ug/L		138	70 - 130
Chlorobenzene	ND		20.0	22.1		ug/L		110	65 - 135
Chloroethane	ND		20.0	22.6		ug/L		113	40 - 160
Chloroform	0.33	J	20.0	24.8		ug/L		122	70 - 135
Chloromethane	ND		20.0	19.5		ug/L		98	10 - 200

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-142424-2 MS
Matrix: Surface Water
Analysis Batch: 421977

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	ND		20.0	22.3		ug/L		111	60 - 140
cis-1,3-Dichloropropene	ND		20.0	19.1		ug/L		96	25 - 175
Cyclohexane	ND		20.0	22.8		ug/L		114	60 - 140
Dibromochloromethane	ND		20.0	22.6		ug/L		113	70 - 135
Dibromomethane	ND		20.0	23.8		ug/L		119	60 - 140
Dichlorodifluoromethane	ND		20.0	19.2		ug/L		96	60 - 140
Dichlorofluoromethane	ND		20.0	22.6		ug/L		113	60 - 140
di-Isopropyl ether	ND		20.0	20.2		ug/L		101	60 - 140
Ethyl methacrylate	ND		20.0	18.6		ug/L		93	60 - 140
Ethyl t-butyl ether	ND		20.0	21.8		ug/L		109	60 - 140
Ethylbenzene	ND		20.0	21.1		ug/L		106	60 - 140
Freon 113	ND		20.0	25.3		ug/L		126	60 - 140
Freon 123a	ND		20.0	20.7		ug/L		104	60 - 140
Hexachlorobutadiene	ND		20.0	18.4		ug/L		92	60 - 140
Isobutyl alcohol	ND		500	509		ug/L		102	60 - 140
Isopropylbenzene	ND		20.0	20.4		ug/L		102	60 - 140
m&p-Xylene	ND		40.0	44.0		ug/L		110	60 - 140
Methacrylonitrile	ND		150	190		ug/L		127	60 - 140
Methyl iodide	ND		20.0	21.9		ug/L		110	60 - 140
Methyl methacrylate	ND		20.0	22.6		ug/L		113	60 - 140
Methylene Chloride	ND		20.0	21.0		ug/L		105	60 - 140
Naphthalene	ND		20.0	17.1		ug/L		86	60 - 140
n-Butylbenzene	ND		20.0	19.7		ug/L		99	60 - 140
n-Heptane	ND		20.0	19.9		ug/L		99	60 - 140
n-Hexane	ND		20.0	20.2		ug/L		101	60 - 140
N-Propylbenzene	ND		20.0	20.6		ug/L		103	60 - 140
o-Xylene	ND		20.0	19.9		ug/L		99	60 - 140
p-Isopropyltoluene	ND		20.0	19.0		ug/L		95	60 - 140
Propionitrile	ND		150	169		ug/L		113	60 - 140
sec-Butylbenzene	ND		20.0	19.4		ug/L		97	60 - 140
Styrene	ND		20.0	21.6		ug/L		108	60 - 140
t-Amyl methyl ether	ND		20.0	21.1		ug/L		105	60 - 140
t-Butyl alcohol	ND		200	242		ug/L		121	60 - 140
tert-Butylbenzene	ND		20.0	18.5		ug/L		93	60 - 140
Tetrachloroethene	ND		20.0	21.6		ug/L		108	70 - 130
Tetrahydrofuran	ND		100	112		ug/L		112	60 - 140
Toluene	ND		20.0	21.9		ug/L		109	70 - 130
trans-1,2-Dichloroethene	ND		20.0	23.2		ug/L		116	70 - 130
trans-1,3-Dichloropropene	ND		20.0	21.2		ug/L		106	50 - 150
trans-1,4-Dichloro-2-butene	ND		100	102		ug/L		102	60 - 140
Trichloroethene	ND		20.0	23.6		ug/L		118	65 - 135
Trichlorofluoromethane	ND		20.0	24.5		ug/L		123	50 - 150
Vinyl chloride	ND		20.0	20.8		ug/L		104	10 - 195
Xylenes, Total	ND		60.0	63.9		ug/L		107	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-142424-2 MS
Matrix: Surface Water
Analysis Batch: 421977

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*108*		*60 - 140*
Toluene-d8 (Surr)	*101*		*60 - 140*

Lab Sample ID: 410-142424-2 MSD
Matrix: Surface Water
Analysis Batch: 421977

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	22.4		ug/L		112	60 - 140	1	30
1,1,1-Trichloroethane	ND	F1	20.0	26.7	F1	ug/L		134	70 - 130	7	30
1,1,2,2-Tetrachloroethane	ND		20.0	20.7		ug/L		103	60 - 140	5	30
1,1,2-Trichloroethane	ND		20.0	21.7		ug/L		108	70 - 130	1	30
1,1-Dichloroethane	ND		20.0	23.9		ug/L		119	70 - 130	1	30
1,1-Dichloroethene	ND		20.0	24.5		ug/L		123	50 - 150	8	30
1,1-Dichloropropene	ND		20.0	27.0		ug/L		135	60 - 140	9	30
1,2,3-Trichlorobenzene	ND		20.0	18.4		ug/L		92	60 - 140	1	30
1,2,3-Trichloropropane	ND		20.0	21.5		ug/L		107	60 - 140	11	30
1,2,4-Trichlorobenzene	ND		20.0	17.4		ug/L		87	60 - 140	6	30
1,2,4-Trimethylbenzene	ND		20.0	20.2		ug/L		101	60 - 140	4	30
1,2-Dibromo-3-Chloropropane	ND		20.0	22.0		ug/L		110	60 - 140	10	30
1,2-Dibromoethane	ND		20.0	21.9		ug/L		109	60 - 140	2	30
1,2-Dichlorobenzene	ND		20.0	19.4		ug/L		97	65 - 135	1	30
1,2-Dichloroethane	ND		20.0	25.3		ug/L		127	70 - 130	4	30
1,2-Dichloroethene (total)	ND		40.0	46.7		ug/L		117	60 - 140	3	30
1,2-Dichloropropane	ND		20.0	23.9		ug/L		120	35 - 165	1	30
1,3,5-Trimethylbenzene	ND		20.0	20.4		ug/L		102	60 - 140	3	30
1,3-Dichlorobenzene	ND		20.0	19.9		ug/L		99	70 - 130	6	30
1,3-Dichloropropane	ND		20.0	21.5		ug/L		107	60 - 140	1	30
1,4-Dichlorobenzene	ND		20.0	20.9		ug/L		104	65 - 135	1	30
1,4-Dioxane	ND	F2	500	468	F2	ug/L		94	60 - 140	35	30
2,2-Dichloropropane	ND		20.0	26.3		ug/L		132	60 - 140	6	30
2-Chloro-1,3-butadiene	ND		20.0	25.3		ug/L		126	60 - 140	7	30
2-Chlorotoluene	ND		20.0	20.5		ug/L		103	60 - 140	2	30
2-Hexanone	ND		250	292		ug/L		117	60 - 140	2	30
2-Propanol	ND		150	112		ug/L		75	60 - 140	4	30
4-Chlorotoluene	ND		20.0	20.9		ug/L		105	60 - 140	3	30
4-Methyl-2-pentanone	ND		250	280		ug/L		112	60 - 140	2	30
Benzene	ND		20.0	25.9		ug/L		129	65 - 135	1	30
Benzyl chloride	ND		20.0	20.7		ug/L		103	60 - 140	0	30
Bromobenzene	ND		20.0	20.3		ug/L		101	60 - 140	1	30
Bromodichloromethane	ND		20.0	25.0		ug/L		125	65 - 135	1	30
Bromoform	ND		20.0	21.8		ug/L		109	70 - 130	0	30
Bromomethane	ND		20.0	23.6		ug/L		118	15 - 185	6	30
Carbon disulfide	ND		20.0	26.0		ug/L		130	60 - 140	10	30
Carbon tetrachloride	ND	F1	20.0	28.7	F1	ug/L		144	70 - 130	4	30
Chlorobenzene	ND		20.0	22.0		ug/L		110	65 - 135	0	30
Chloroethane	ND		20.0	24.3		ug/L		121	40 - 160	7	30
Chloroform	0.33	J	20.0	26.1		ug/L		129	70 - 135	5	30

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-142424-2 MSD
Matrix: Surface Water
Analysis Batch: 421977

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane	ND		20.0	22.4		ug/L		112	10 - 200	14	30
cis-1,2-Dichloroethene	ND		20.0	23.4		ug/L		117	60 - 140	5	30
cis-1,3-Dichloropropene	ND		20.0	19.1		ug/L		96	25 - 175	0	30
Cyclohexane	ND		20.0	23.8		ug/L		119	60 - 140	4	30
Dibromochloromethane	ND		20.0	22.2		ug/L		111	70 - 135	2	30
Dibromomethane	ND		20.0	25.5		ug/L		128	60 - 140	7	30
Dichlorodifluoromethane	ND		20.0	21.5		ug/L		108	60 - 140	11	30
Dichlorofluoromethane	ND		20.0	23.7		ug/L		118	60 - 140	5	30
di-Isopropyl ether	ND		20.0	21.1		ug/L		106	60 - 140	4	30
Ethyl methacrylate	ND		20.0	19.0		ug/L		95	60 - 140	2	30
Ethyl t-butyl ether	ND		20.0	22.3		ug/L		112	60 - 140	3	30
Ethylbenzene	ND		20.0	22.2		ug/L		111	60 - 140	5	30
Freon 113	ND		20.0	26.7		ug/L		134	60 - 140	6	30
Freon 123a	ND		20.0	22.2		ug/L		111	60 - 140	7	30
Hexachlorobutadiene	ND		20.0	18.3		ug/L		91	60 - 140	0	30
Isobutyl alcohol	ND		500	530		ug/L		106	60 - 140	4	30
Isopropylbenzene	ND		20.0	21.2		ug/L		106	60 - 140	4	30
m&p-Xylene	ND		40.0	44.9		ug/L		112	60 - 140	2	30
Methacrylonitrile	ND		150	197		ug/L		131	60 - 140	3	30
Methyl iodide	ND		20.0	23.9		ug/L		119	60 - 140	9	30
Methyl methacrylate	ND		20.0	24.4		ug/L		122	60 - 140	7	30
Methylene Chloride	ND		20.0	21.4		ug/L		107	60 - 140	2	30
Naphthalene	ND		20.0	17.5		ug/L		88	60 - 140	2	30
n-Butylbenzene	ND		20.0	20.0		ug/L		100	60 - 140	1	30
n-Heptane	ND		20.0	20.6		ug/L		103	60 - 140	4	30
n-Hexane	ND		20.0	21.6		ug/L		108	60 - 140	6	30
N-Propylbenzene	ND		20.0	22.1		ug/L		110	60 - 140	7	30
o-Xylene	ND		20.0	20.9		ug/L		104	60 - 140	5	30
p-Isopropyltoluene	ND		20.0	19.6		ug/L		98	60 - 140	3	30
Propionitrile	ND		150	176		ug/L		117	60 - 140	4	30
sec-Butylbenzene	ND		20.0	20.1		ug/L		101	60 - 140	4	30
Styrene	ND		20.0	21.4		ug/L		107	60 - 140	1	30
t-Amyl methyl ether	ND		20.0	22.1		ug/L		111	60 - 140	5	30
t-Butyl alcohol	ND		200	253		ug/L		126	60 - 140	4	30
tert-Butylbenzene	ND		20.0	19.3		ug/L		96	60 - 140	4	30
Tetrachloroethene	ND		20.0	21.8		ug/L		109	70 - 130	1	30
Tetrahydrofuran	ND		100	122		ug/L		122	60 - 140	9	30
Toluene	ND		20.0	23.3		ug/L		116	70 - 130	6	30
trans-1,2-Dichloroethene	ND		20.0	23.3		ug/L		117	70 - 130	0	30
trans-1,3-Dichloropropene	ND		20.0	22.1		ug/L		111	50 - 150	4	30
trans-1,4-Dichloro-2-butene	ND		100	106		ug/L		106	60 - 140	4	30
Trichloroethene	ND		20.0	24.0		ug/L		120	65 - 135	2	30
Trichlorofluoromethane	ND		20.0	25.1		ug/L		126	50 - 150	2	30
Vinyl chloride	ND		20.0	22.3		ug/L		112	10 - 195	7	30
Xylenes, Total	ND		60.0	65.8		ug/L		110	60 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-142424-2 MSD
Matrix: Surface Water
Analysis Batch: 421977

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*
Dibromofluoromethane (Surr)	*108*		*60 - 140*
Toluene-d8 (Surr)	*102*		*60 - 140*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-421245/6
Matrix: Water
Analysis Batch: 421245

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/19/23 20:19	1
Acetone	ND		20	0.70	ug/L			09/19/23 20:19	1
2-Butanone	ND		10	0.50	ug/L			09/19/23 20:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*09/19/23 20:19*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*09/19/23 20:19*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/19/23 20:19*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/19/23 20:19*	*1*

Lab Sample ID: LCS 410-421245/4
Matrix: Water
Analysis Batch: 421245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tertiary butyl ether	20.0	19.5		ug/L		97	69 - 122
Acetone	250	241		ug/L		97	54 - 157
2-Butanone	250	238		ug/L		95	59 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 410-422576/6
Matrix: Water
Analysis Batch: 422576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/22/23 10:54	1
Acetone	ND		20	0.70	ug/L			09/22/23 10:54	1
2-Butanone	ND		10	0.50	ug/L			09/22/23 10:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*09/22/23 10:54*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/22/23 10:54*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-422576/6
Matrix: Water
Analysis Batch: 422576

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/22/23 10:54*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/22/23 10:54*	*1*

Lab Sample ID: LCS 410-422576/4
Matrix: Water
Analysis Batch: 422576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tertiary butyl ether	20.0	19.3		ug/L		97	69 - 122
Acetone	250	249		ug/L		100	54 - 157
2-Butanone	250	239		ug/L		95	59 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-419582/1-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,2,4,5-Tetrachlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,2-Dichlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,2-Diphenylhydrazine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,3-Dichlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,4-Dichlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
1,4-Dioxane	ND		5.0	2.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
1-Methylnaphthalene	ND		5.0	0.35	ug/L		09/14/23 15:25	09/14/23 22:31	1
1-Methylphenanthrene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,2'-oxybis[1-chloropropane]	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,3,4,6-Tetrachlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,3-Dichloroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4,5-Trichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4,6-Trichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4-Dichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4-Dinitrophenol	ND		10	2.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,6-Dichlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2-Chloronaphthalene	ND		5.0	1.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
2-Chlorophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-419582/1-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
2-Methylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2-Nitroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
2-Nitrophenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
3,3'-Dichlorobenzidine	ND		5.0	0.80	ug/L		09/14/23 15:25	09/14/23 22:31	1
3-Nitroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4,6-Dinitro-2-methylphenol	ND		10	2.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Bromophenyl-phenylether	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Chloro-3-methylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Chloroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Chlorophenyl-phenylether	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Methylphenol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Nitroaniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
4-Nitrophenol	ND		5.0	0.90	ug/L		09/14/23 15:25	09/14/23 22:31	1
Acenaphthene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
Acenaphthylene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Acetophenone	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Aniline	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Anthracene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
a-Terpineol	ND		5.0	0.60	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzidine	ND		60	6.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzo[a]anthracene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzo[a]pyrene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzo[b]fluoranthene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzo[g,h,i]perylene	ND		5.0	0.30	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzo[k]fluoranthene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzoic acid	ND		30	4.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Benzyl alcohol	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Bis(2-chloroethoxy)methane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Bis(2-chloroethyl)ether	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Butylbenzylphthalate	ND		5.0	1.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Carbazole	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Chrysene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Dibenz(a,h)anthracene	ND		5.0	0.30	ug/L		09/14/23 15:25	09/14/23 22:31	1
Dibenzofuran	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Diethylphthalate	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Dimethylphthalate	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Di-n-butyl phthalate	ND		5.0	1.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Di-n-octyl phthalate	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Diphenyl ether	ND		5.0	0.75	ug/L		09/14/23 15:25	09/14/23 22:31	1
Fluoranthene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Fluorene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Hexachlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Hexachlorocyclopentadiene	ND		15	3.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Hexachloroethane	ND		2.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.30	ug/L		09/14/23 15:25	09/14/23 22:31	1
Isophorone	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-419582/1-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.30	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Decane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Docosane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Eicosane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Hexadecane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Nitrobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosodiethylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosodimethylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosodi-n-butylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosodi-n-propylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
N-Nitrosopyrrolidine	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Octadecane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
n-Tetradecane	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
o-Toluidine	ND		5.0	1.0	ug/L		09/14/23 15:25	09/14/23 22:31	1
Pentachlorobenzene	ND		5.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Pentachlorophenol	ND		5.0	0.80	ug/L		09/14/23 15:25	09/14/23 22:31	1
Phenanthrene	ND		5.0	0.20	ug/L		09/14/23 15:25	09/14/23 22:31	1
Phenol	ND		1.0	0.50	ug/L		09/14/23 15:25	09/14/23 22:31	1
Pyrene	ND		5.0	0.25	ug/L		09/14/23 15:25	09/14/23 22:31	1
Pyridine	ND		10	0.80	ug/L		09/14/23 15:25	09/14/23 22:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*67*		*10 - 150*	*09/14/23 15:25*	*09/14/23 22:31*	*1*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*	*09/14/23 15:25*	*09/14/23 22:31*	*1*
2-Fluorophenol (Surr)	*41*		*10 - 83*	*09/14/23 15:25*	*09/14/23 22:31*	*1*
Nitrobenzene-d5 (Surr)	*78*		*41 - 121*	*09/14/23 15:25*	*09/14/23 22:31*	*1*
Phenol-d5 (Surr)	*29*		*10 - 63*	*09/14/23 15:25*	*09/14/23 22:31*	*1*
p-Terphenyl-d14 (Surr)	*105*		*28 - 134*	*09/14/23 15:25*	*09/14/23 22:31*	*1*

Lab Sample ID: LCS 410-419582/2-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	50.0	48.8		ug/L		98	60 - 119
1,2,4,5-Tetrachlorobenzene	50.0	46.4		ug/L		93	43 - 119
1,2,4-Trichlorobenzene	50.0	48.0		ug/L		96	44 - 142
1,2-Dichlorobenzene	50.0	43.8		ug/L		88	39 - 113
1,2-Diphenylhydrazine	50.0	51.0		ug/L		102	57 - 141
1,3-Dichlorobenzene	50.0	42.9		ug/L		86	37 - 107
1,4-Dichlorobenzene	50.0	43.8		ug/L		88	37 - 110
1,4-Dioxane	50.0	29.1		ug/L		58	25 - 64
1-Methylnaphthalene	50.0	49.2		ug/L		98	61 - 114
1-Methylphenanthrene	50.0	52.3		ug/L		105	75 - 118
2,2'-oxybis[1-chloropropane]	50.0	48.6		ug/L		97	48 - 110
2,3,4,6-Tetrachlorophenol	50.0	49.3		ug/L		99	43 - 137
2,3-Dichloroaniline	50.0	47.4		ug/L		95	57 - 124

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-419582/2-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	50.0	52.5		ug/L		105	69 - 133
2,4,6-Trichlorophenol	50.0	53.6		ug/L		107	37 - 144
2,4-Dichlorophenol	50.0	54.2		ug/L		108	39 - 135
2,4-Dimethylphenol	50.0	43.5		ug/L		87	32 - 120
2,4-Dinitrophenol	100	110		ug/L		110	10 - 191
2,4-Dinitrotoluene	50.0	55.5		ug/L		111	39 - 139
2,6-Dichlorophenol	50.0	52.5		ug/L		105	77 - 120
2,6-Dinitrotoluene	50.0	53.9		ug/L		108	50 - 158
2-Chloronaphthalene	50.0	44.6		ug/L		89	60 - 120
2-Chlorophenol	50.0	43.8		ug/L		88	23 - 134
2-Methylnaphthalene	50.0	48.6		ug/L		97	50 - 114
2-Methylphenol	50.0	43.7		ug/L		87	52 - 113
2-Nitroaniline	50.0	49.9		ug/L		100	60 - 125
2-Nitrophenol	50.0	49.8		ug/L		100	29 - 182
3,3'-Dichlorobenzidine	100	84.7		ug/L		85	10 - 200
3-Nitroaniline	50.0	46.6		ug/L		93	36 - 147
4,6-Dinitro-2-methylphenol	100	111		ug/L		111	10 - 181
4-Bromophenyl-phenylether	50.0	54.3		ug/L		109	53 - 127
4-Chloro-3-methylphenol	50.0	47.7		ug/L		95	22 - 147
4-Chloroaniline	50.0	42.5		ug/L		85	33 - 109
4-Chlorophenyl-phenylether	50.0	50.5		ug/L		101	25 - 158
4-Methylphenol	50.0	37.4		ug/L		75	47 - 96
4-Nitroaniline	50.0	44.9		ug/L		90	36 - 150
4-Nitrophenol	100	54.4		ug/L		54	10 - 132
Acenaphthene	50.0	49.2		ug/L		98	47 - 145
Acenaphthylene	50.0	48.5		ug/L		97	33 - 145
Acetophenone	50.0	49.9		ug/L		100	55 - 122
Aniline	50.0	37.5		ug/L		75	21 - 106
Anthracene	50.0	52.7		ug/L		105	27 - 133
a-Terpineol	50.0	45.0		ug/L		90	56 - 132
Benzidine	100	25.7	J	ug/L		26	10 - 72
Benzo[a]anthracene	50.0	51.9		ug/L		104	33 - 143
Benzo[a]pyrene	50.0	56.7		ug/L		113	17 - 163
Benzo[b]fluoranthene	50.0	47.0		ug/L		94	24 - 159
Benzo[g,h,i]perylene	50.0	54.4		ug/L		109	10 - 200
Benzo[k]fluoranthene	50.0	54.6		ug/L		109	11 - 162
Benzoic acid	50.0	37.1		ug/L		74	10 - 96
Benzyl alcohol	50.0	45.9		ug/L		92	53 - 137
Bis(2-chloroethoxy)methane	50.0	48.9		ug/L		98	33 - 184
Bis(2-chloroethyl)ether	50.0	49.4		ug/L		99	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	52.0		ug/L		104	10 - 158
Butylbenzylphthalate	50.0	45.8		ug/L		92	10 - 152
Carbazole	50.0	50.7		ug/L		101	62 - 127
Chrysene	50.0	55.9		ug/L		112	17 - 168
Dibenz(a,h)anthracene	50.0	52.8		ug/L		106	10 - 200
Dibenzofuran	50.0	50.3		ug/L		101	60 - 126
Diethylphthalate	50.0	44.3		ug/L		89	10 - 120
Dimethylphthalate	50.0	41.8		ug/L		84	10 - 120
Di-n-butyl phthalate	50.0	48.6		ug/L		97	10 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-419582/2-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-octyl phthalate	50.0	54.2		ug/L		108	10 - 146
Diphenyl ether	50.0	46.2		ug/L		92	63 - 121
Fluoranthene	50.0	49.8		ug/L		100	26 - 137
Fluorene	50.0	49.0		ug/L		98	59 - 121
Hexachlorobenzene	50.0	53.7		ug/L		107	10 - 152
Hexachlorobutadiene	50.0	46.1		ug/L		92	24 - 120
Hexachlorocyclopentadiene	50.0	22.5		ug/L		45	10 - 87
Hexachloroethane	50.0	39.8		ug/L		80	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	54.5		ug/L		109	10 - 171
Isophorone	50.0	49.8		ug/L		100	21 - 196
Naphthalene	50.0	46.8		ug/L		94	21 - 133
n-Decane	50.0	36.7		ug/L		73	15 - 104
n-Docosane	50.0	51.3		ug/L		103	41 - 167
n-Eicosane	50.0	47.5		ug/L		95	41 - 162
n-Hexadecane	50.0	42.5		ug/L		85	39 - 134
Nitrobenzene	50.0	48.5		ug/L		97	35 - 180
N-Nitrosodimethylamine	50.0	36.9		ug/L		74	33 - 83
N-Nitrosodi-n-propylamine	50.0	45.4		ug/L		91	10 - 200
N-Nitrosodiphenylamine	42.5	46.8		ug/L		110	63 - 127
n-Octadecane	50.0	46.6		ug/L		93	51 - 134
n-Tetradecane	50.0	37.2		ug/L		74	19 - 133
Pentachlorophenol	100	122		ug/L		122	14 - 176
Phenanthrene	50.0	52.1		ug/L		104	54 - 120
Phenol	50.0	26.7		ug/L		53	10 - 120
Pyrene	50.0	53.5		ug/L		107	52 - 120
Pyridine	100	59.6		ug/L		60	27 - 75

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*80*		*10 - 150*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*
2-Fluorophenol (Surr)	*51*		*10 - 83*
Nitrobenzene-d5 (Surr)	*79*		*41 - 121*
Phenol-d5 (Surr)	*38*		*10 - 63*
p-Terphenyl-d14 (Surr)	*97*		*28 - 134*

Lab Sample ID: LCS 410-419582/4-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodiethylamine	50.0	41.3		ug/L		83	60 - 106
N-Nitrosodi-n-butylamine	50.0	37.8		ug/L		76	57 - 101
N-Nitrosopyrrolidine	50.0	41.8		ug/L		84	43 - 125
o-Toluidine	50.0	37.8		ug/L		76	44 - 103
Pentachlorobenzene	50.0	45.9		ug/L		92	48 - 114

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*79*		*10 - 150*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-419582/4-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419582

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	78		32 - 115
2-Fluorophenol (Surr)	46		10 - 83
Nitrobenzene-d5 (Surr)	76		41 - 121
Phenol-d5 (Surr)	34		10 - 63
p-Terphenyl-d14 (Surr)	92		28 - 134

Lab Sample ID: LCSD 410-419582/3-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419582

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			50.0	48.6		ug/L		97	60 - 119	1	30
1,2,4,5-Tetrachlorobenzene			50.0	45.5		ug/L		91	43 - 119	2	30
1,2,4-Trichlorobenzene			50.0	44.3		ug/L		89	44 - 142	8	30
1,2-Dichlorobenzene			50.0	40.4		ug/L		81	39 - 113	8	30
1,2-Diphenylhydrazine			50.0	49.4		ug/L		99	57 - 141	3	30
1,3-Dichlorobenzene			50.0	37.6		ug/L		75	37 - 107	13	30
1,4-Dichlorobenzene			50.0	39.7		ug/L		79	37 - 110	10	30
1,4-Dioxane			50.0	25.0		ug/L		50	25 - 64	15	30
1-Methylnaphthalene			50.0	48.7		ug/L		97	61 - 114	1	30
1-Methylphenanthrene			50.0	52.9		ug/L		106	75 - 118	1	30
2,2'-oxybis[1-chloropropane]			50.0	44.2		ug/L		88	48 - 110	9	30
2,3,4,6-Tetrachlorophenol			50.0	52.7		ug/L		105	43 - 137	7	30
2,3-Dichloroaniline			50.0	47.9		ug/L		96	57 - 124	1	30
2,4,5-Trichlorophenol			50.0	56.4		ug/L		113	69 - 133	7	30
2,4,6-Trichlorophenol			50.0	54.9		ug/L		110	37 - 144	2	30
2,4-Dichlorophenol			50.0	55.2		ug/L		110	39 - 135	2	30
2,4-Dimethylphenol			50.0	44.3		ug/L		89	32 - 120	2	30
2,4-Dinitrophenol			100	120		ug/L		120	10 - 191	8	30
2,4-Dinitrotoluene			50.0	58.2		ug/L		116	39 - 139	5	30
2,6-Dichlorophenol			50.0	52.6		ug/L		105	77 - 120	0	30
2,6-Dinitrotoluene			50.0	56.7		ug/L		113	50 - 158	5	30
2-Chloronaphthalene			50.0	42.9		ug/L		86	60 - 120	4	24
2-Chlorophenol			50.0	41.7		ug/L		83	23 - 134	5	30
2-Methylnaphthalene			50.0	49.0		ug/L		98	50 - 114	1	30
2-Methylphenol			50.0	43.1		ug/L		86	52 - 113	2	30
2-Nitroaniline			50.0	53.2		ug/L		106	60 - 125	6	30
2-Nitrophenol			50.0	50.4		ug/L		101	29 - 182	1	30
3,3'-Dichlorobenzidine			100	88.8		ug/L		89	10 - 200	5	30
3-Nitroaniline			50.0	48.3		ug/L		97	36 - 147	4	30
4,6-Dinitro-2-methylphenol			100	117		ug/L		117	10 - 181	5	30
4-Bromophenyl-phenylether			50.0	53.0		ug/L		106	53 - 127	2	30
4-Chloro-3-methylphenol			50.0	50.0		ug/L		100	22 - 147	5	30
4-Chloroaniline			50.0	43.3		ug/L		87	33 - 109	2	30
4-Chlorophenyl-phenylether			50.0	52.4		ug/L		105	25 - 158	4	30
4-Methylphenol			50.0	37.5		ug/L		75	47 - 96	0	30
4-Nitroaniline			50.0	49.3		ug/L		99	36 - 150	9	30
4-Nitrophenol			100	64.7		ug/L		65	10 - 132	17	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-419582/3-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419582

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	50.0	50.8		ug/L		102	47 - 145	3	30
Acenaphthylene	50.0	48.2		ug/L		96	33 - 145	1	30
Acetophenone	50.0	47.8		ug/L		96	55 - 122	4	30
Aniline	50.0	35.3		ug/L		71	21 - 106	6	30
Anthracene	50.0	53.1		ug/L		106	27 - 133	1	30
a-Terpineol	50.0	43.7		ug/L		87	56 - 132	3	30
Benzidine	100	27.1	J	ug/L		27	10 - 72	5	30
Benzo[a]anthracene	50.0	52.1		ug/L		104	33 - 143	0	30
Benzo[a]pyrene	50.0	58.3		ug/L		117	17 - 163	3	30
Benzo[b]fluoranthene	50.0	48.9		ug/L		98	24 - 159	4	30
Benzo[g,h,i]perylene	50.0	52.8		ug/L		106	10 - 200	3	30
Benzo[k]fluoranthene	50.0	55.1		ug/L		110	11 - 162	1	30
Benzoic acid	50.0	47.4		ug/L		95	10 - 96	24	30
Benzyl alcohol	50.0	43.6		ug/L		87	53 - 137	5	30
Bis(2-chloroethoxy)methane	50.0	48.9		ug/L		98	33 - 184	0	30
Bis(2-chloroethyl)ether	50.0	45.0		ug/L		90	12 - 158	9	30
Bis(2-ethylhexyl) phthalate	50.0	53.6		ug/L		107	10 - 158	3	30
Butylbenzylphthalate	50.0	46.3		ug/L		93	10 - 152	1	30
Carbazole	50.0	52.0		ug/L		104	62 - 127	3	30
Chrysene	50.0	56.6		ug/L		113	17 - 168	1	30
Dibenz(a,h)anthracene	50.0	54.1		ug/L		108	10 - 200	2	30
Dibenzofuran	50.0	51.5		ug/L		103	60 - 126	2	30
Diethylphthalate	50.0	46.9		ug/L		94	10 - 120	6	30
Dimethylphthalate	50.0	43.4		ug/L		87	10 - 120	4	30
Di-n-butyl phthalate	50.0	49.1		ug/L		98	10 - 120	1	30
Di-n-octyl phthalate	50.0	56.1		ug/L		112	10 - 146	3	30
Diphenyl ether	50.0	45.5		ug/L		91	63 - 121	2	30
Fluoranthene	50.0	50.9		ug/L		102	26 - 137	2	30
Fluorene	50.0	50.6		ug/L		101	59 - 121	3	30
Hexachlorobenzene	50.0	54.8		ug/L		110	10 - 152	2	30
Hexachlorobutadiene	50.0	43.0		ug/L		86	24 - 120	7	30
Hexachlorocyclopentadiene	50.0	20.7		ug/L		41	10 - 87	9	30
Hexachloroethane	50.0	35.8		ug/L		72	40 - 120	11	30
Indeno[1,2,3-cd]pyrene	50.0	56.5		ug/L		113	10 - 171	4	30
Isophorone	50.0	49.1		ug/L		98	21 - 196	1	30
Naphthalene	50.0	45.6		ug/L		91	21 - 133	3	30
n-Decane	50.0	31.9		ug/L		64	15 - 104	14	30
n-Docosane	50.0	52.0		ug/L		104	41 - 167	1	30
n-Eicosane	50.0	47.0		ug/L		94	41 - 162	1	30
n-Hexadecane	50.0	43.9		ug/L		88	39 - 134	3	30
Nitrobenzene	50.0	46.9		ug/L		94	35 - 180	3	30
N-Nitrosodimethylamine	50.0	32.8		ug/L		66	33 - 83	12	30
N-Nitrosodi-n-propylamine	50.0	44.3		ug/L		89	10 - 200	3	30
N-Nitrosodiphenylamine	42.5	46.6		ug/L		110	63 - 127	0	30
n-Octadecane	50.0	48.0		ug/L		96	51 - 134	3	30
n-Tetradecane	50.0	37.1		ug/L		74	19 - 133	0	30
Pentachlorophenol	100	127		ug/L		127	14 - 176	4	30
Phenanthrene	50.0	52.8		ug/L		106	54 - 120	1	30
Phenol	50.0	25.8		ug/L		52	10 - 120	3	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-419582/3-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419582

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene			50.0	54.6		ug/L		109	52 - 120	2	30
Pyridine			100	53.8		ug/L		54	27 - 75	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*86*		*10 - 150*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*
2-Fluorophenol (Surr)	*46*		*10 - 83*
Nitrobenzene-d5 (Surr)	*74*		*41 - 121*
Phenol-d5 (Surr)	*36*		*10 - 63*
p-Terphenyl-d14 (Surr)	*99*		*28 - 134*

Lab Sample ID: LCSD 410-419582/5-A
Matrix: Water
Analysis Batch: 419674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419582

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodiethylamine			50.0	39.3		ug/L		79	60 - 106	5	30
N-Nitrosodi-n-butylamine			50.0	34.6		ug/L		69	57 - 101	9	30
N-Nitrosopyrrolidine			50.0	41.3		ug/L		83	43 - 125	1	30
o-Toluidine			50.0	33.5		ug/L		67	44 - 103	12	30
Pentachlorobenzene			50.0	46.5		ug/L		93	48 - 114	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromofenol (Surr)	*71*		*10 - 150*
2-Fluorobiphenyl (Surr)	*77*		*32 - 115*
2-Fluorophenol (Surr)	*52*		*10 - 83*
Nitrobenzene-d5 (Surr)	*76*		*41 - 121*
Phenol-d5 (Surr)	*40*		*10 - 63*
p-Terphenyl-d14 (Surr)	*91*		*28 - 134*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 410-421053/5
Matrix: Water
Analysis Batch: 421053

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	ND		50	23	ug/L			09/19/23 12:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid) (1C)	*99*		*63 - 135*		*09/19/23 12:29*	*1*

Lab Sample ID: LCS 410-421053/6
Matrix: Water
Analysis Batch: 421053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
GRO (1C)			1100	954		ug/L		87	70 - 123		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 410-421053/6
Matrix: Water
Analysis Batch: 421053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid) (1C)	*90*		*63 - 135*

Lab Sample ID: LCSD 410-421053/7
Matrix: Water
Analysis Batch: 421053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
GRO (1C)			1100	948		ug/L		86	70 - 123	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene (fid) (1C)	*91*		*63 - 135*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-423403/1-A
Matrix: Water
Analysis Batch: 423336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		09/25/23 10:27	09/25/23 10:51	1
Ethene (1C)	ND		5.0	1.0	ug/L		09/25/23 10:27	09/25/23 10:51	1
Methane (1C)	ND		5.0	3.0	ug/L		09/25/23 10:27	09/25/23 10:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Propene (1C)	*100*		*43 - 133*	*09/25/23 10:27*	*09/25/23 10:51*	*1*

Lab Sample ID: LCS 410-423403/2-A
Matrix: Water
Analysis Batch: 423336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423403

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane (1C)			61.7	62.6		ug/L		101	85 - 115
Ethene (1C)			58.3	59.6		ug/L		102	83 - 115
Methane (1C)			59.8	66.8		ug/L		112	85 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Propene (1C)	*103*		*43 - 133*

Lab Sample ID: LCSD 410-423403/3-A
Matrix: Water
Analysis Batch: 423336

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423403

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)			61.7	64.2		ug/L		104	85 - 115	3	20
Ethene (1C)			58.3	60.8		ug/L		104	83 - 115	2	20
Methane (1C)			59.8	68.1		ug/L		114	85 - 115	2	20

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 410-423403/3-A
Matrix: Water
Analysis Batch: 423336

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423403

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene (1C)	*104*		*43 - 133*

Lab Sample ID: MB 410-423842/1-A
Matrix: Water
Analysis Batch: 423788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		09/26/23 09:58	09/26/23 11:07	1
Ethene (1C)	ND		5.0	1.0	ug/L		09/26/23 09:58	09/26/23 11:07	1
Methane (1C)	ND		5.0	3.0	ug/L		09/26/23 09:58	09/26/23 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene (1C)	*112*		*43 - 133*	*09/26/23 09:58*	*09/26/23 11:07*	*1*

Lab Sample ID: LCS 410-423842/2-A
Matrix: Water
Analysis Batch: 423788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423842

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane (1C)			61.7	63.9		ug/L		104	85 - 115		
Ethene (1C)			58.3	60.6		ug/L		104	83 - 115		
Methane (1C)			59.8	65.1		ug/L		109	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene (1C)	*112*		*43 - 133*

Lab Sample ID: LCSD 410-423842/3-A
Matrix: Water
Analysis Batch: 423788

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423842

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)			61.7	64.9		ug/L		105	85 - 115	2	20
Ethene (1C)			58.3	61.5		ug/L		105	83 - 115	2	20
Methane (1C)			59.8	65.7		ug/L		110	85 - 115	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene (1C)	*115*		*43 - 133*

Lab Sample ID: MB 410-423982/1-A
Matrix: Water
Analysis Batch: 423788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane (1C)	ND		5.0	1.0	ug/L		09/26/23 15:32	09/26/23 17:01	1
Ethene (1C)	ND		5.0	1.0	ug/L		09/26/23 15:32	09/26/23 17:01	1
Methane (1C)	ND		5.0	3.0	ug/L		09/26/23 15:32	09/26/23 17:01	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 410-423982/1-A
Matrix: Water
Analysis Batch: 423788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423982

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Propene (1C)	116		43 - 133	09/26/23 15:32	09/26/23 17:01	1

Lab Sample ID: LCS 410-423982/2-A
Matrix: Water
Analysis Batch: 423788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423982

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane (1C)			61.7	65.0		ug/L		105	85 - 115		
Ethene (1C)			58.3	61.3		ug/L		105	83 - 115		
Methane (1C)			59.8	64.0		ug/L		107	85 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Propene (1C)	114		43 - 133

Lab Sample ID: LCSD 410-423982/3-A
Matrix: Water
Analysis Batch: 423788

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423982

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane (1C)			61.7	65.5		ug/L		106	85 - 115	1	20
Ethene (1C)			58.3	61.7		ug/L		106	83 - 115	1	20
Methane (1C)			59.8	64.5		ug/L		108	85 - 115	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Propene (1C)	113		43 - 133

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 410-419812/1-A
Matrix: Water
Analysis Batch: 420087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28) (1C)	ND		0.10	0.045	mg/L		09/15/23 08:06	09/16/23 01:14	1
>C28-C35 (1C)	ND		0.10	0.045	mg/L		09/15/23 08:06	09/16/23 01:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o- terphenyl (Surr) (1C)	73		32 - 125	09/15/23 08:06	09/16/23 01:14	1

Lab Sample ID: LCS 410-419812/2-A
Matrix: Water
Analysis Batch: 420087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419812

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DRO (C10-C28) (1C)			0.604	0.340		mg/L		56	20 - 115		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Lab Sample ID: LCS 410-419812/2-A
Matrix: Water
Analysis Batch: 420087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419812

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o- terphenyl (Surr) (1C)	82		32 - 125

Lab Sample ID: LCSD 410-419812/3-A
Matrix: Water
Analysis Batch: 420087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 419812

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C28) (1C)			0.604	0.337		mg/L		56	20 - 115	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o- terphenyl (Surr) (1C)	79		32 - 125

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-422924/5
Matrix: Water
Analysis Batch: 422924

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			09/23/23 09:42	1
Chloride	ND		1.5	0.60	mg/L			09/23/23 09:42	1

Lab Sample ID: LCS 410-422924/3
Matrix: Water
Analysis Batch: 422924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			7.50	7.83		mg/L		104	90 - 110		
Chloride			3.00	3.15		mg/L		105	90 - 110		

Lab Sample ID: LCSD 410-422924/4
Matrix: Water
Analysis Batch: 422924

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			7.50	7.43		mg/L		99	90 - 110	5	20
Chloride			3.00	3.01		mg/L		100	90 - 110	5	20

Lab Sample ID: MB 410-422933/5
Matrix: Water
Analysis Batch: 422933

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			09/26/23 12:18	1
Chloride	ND		1.5	0.60	mg/L			09/26/23 12:18	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-422933/3
Matrix: Water
Analysis Batch: 422933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	7.43		mg/L		99	90 - 110
Chloride	3.00	3.04		mg/L		101	90 - 110

Lab Sample ID: LCSD 410-422933/4
Matrix: Water
Analysis Batch: 422933

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	7.43		mg/L		99	90 - 110	0	20
Chloride	3.00	3.04		mg/L		101	90 - 110	0	20

Lab Sample ID: MB 410-423588/5
Matrix: Water
Analysis Batch: 423588

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.50	mg/L			09/26/23 06:07	1
Chloride	ND		1.5	0.60	mg/L			09/26/23 06:07	1

Lab Sample ID: LCS 410-423588/3
Matrix: Water
Analysis Batch: 423588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	7.47		mg/L		100	90 - 110
Chloride	3.00	3.03		mg/L		101	90 - 110

Lab Sample ID: LCSD 410-423588/4
Matrix: Water
Analysis Batch: 423588

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	7.44		mg/L		99	90 - 110	0	20
Chloride	3.00	3.05		mg/L		102	90 - 110	1	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-419237/1-A
Matrix: Water
Analysis Batch: 420400

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 419237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		09/14/23 00:53	09/17/23 16:41	1
Aluminum	ND		30	12	ug/L		09/14/23 00:53	09/17/23 16:41	1
Arsenic	ND		2.0	0.68	ug/L		09/14/23 00:53	09/17/23 16:41	1
Barium	ND		2.0	0.75	ug/L		09/14/23 00:53	09/17/23 16:41	1
Beryllium	ND		0.50	0.12	ug/L		09/14/23 00:53	09/17/23 16:41	1
Cadmium	ND		0.50	0.15	ug/L		09/14/23 00:53	09/17/23 16:41	1
Calcium	ND		120	50	ug/L		09/14/23 00:53	09/17/23 16:41	1
Chromium	ND		2.0	0.55	ug/L		09/14/23 00:53	09/17/23 16:41	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-419237/1-A
Matrix: Water
Analysis Batch: 420400

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 419237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		0.50	0.16	ug/L		09/14/23 00:53	09/17/23 16:41	1
Copper	ND		1.0	0.36	ug/L		09/14/23 00:53	09/17/23 16:41	1
Iron	ND		50	20	ug/L		09/14/23 00:53	09/17/23 16:41	1
Lead	ND		0.50	0.12	ug/L		09/14/23 00:53	09/17/23 16:41	1
Magnesium	ND		50	16	ug/L		09/14/23 00:53	09/17/23 16:41	1
Manganese	ND		2.0	0.95	ug/L		09/14/23 00:53	09/17/23 16:41	1
Nickel	ND		1.0	0.40	ug/L		09/14/23 00:53	09/17/23 16:41	1
Potassium	ND		200	65	ug/L		09/14/23 00:53	09/17/23 16:41	1
Selenium	ND		1.0	0.28	ug/L		09/14/23 00:53	09/17/23 16:41	1
Silver	ND		0.50	0.10	ug/L		09/14/23 00:53	09/17/23 16:41	1
Sodium	ND		200	90	ug/L		09/14/23 00:53	09/17/23 16:41	1
Thallium	ND		0.50	0.13	ug/L		09/14/23 00:53	09/17/23 16:41	1
Vanadium	ND		4.0	0.79	ug/L		09/14/23 00:53	09/17/23 16:41	1
Zinc	ND		10	4.0	ug/L		09/14/23 00:53	09/17/23 16:41	1

Lab Sample ID: LCS 410-419237/2-A
Matrix: Water
Analysis Batch: 420400

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 419237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	105		ug/L		105	85 - 115
Aluminum	5000	5100		ug/L		102	85 - 115
Arsenic	500	503		ug/L		101	85 - 115
Barium	500	525		ug/L		105	85 - 115
Beryllium	50.0	49.5		ug/L		99	85 - 115
Cadmium	50.0	54.0		ug/L		108	85 - 115
Calcium	5000	5070		ug/L		101	85 - 115
Chromium	500	509		ug/L		102	85 - 115
Cobalt	500	505		ug/L		101	85 - 115
Copper	500	498		ug/L		100	85 - 115
Iron	5000	5160		ug/L		103	85 - 115
Lead	50.0	52.0		ug/L		104	85 - 115
Magnesium	5000	5070		ug/L		101	85 - 115
Manganese	500	517		ug/L		103	85 - 115
Nickel	500	501		ug/L		100	85 - 115
Potassium	5000	5150		ug/L		103	85 - 115
Selenium	100	99.6		ug/L		100	85 - 115
Silver	50.0	52.4		ug/L		105	85 - 115
Sodium	5000	4890		ug/L		98	85 - 115
Thallium	100	102		ug/L		102	85 - 115
Vanadium	500	514		ug/L		103	85 - 115
Zinc	500	509		ug/L		102	85 - 115

Lab Sample ID: MB 410-419238/1-A
Matrix: Water
Analysis Batch: 421373

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 419238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.20	ug/L		09/14/23 00:57	09/19/23 15:55	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-419238/1-A
Matrix: Water
Analysis Batch: 421373

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 419238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		30	12	ug/L		09/14/23 00:57	09/19/23 15:55	1
Arsenic	ND		2.0	0.68	ug/L		09/14/23 00:57	09/19/23 15:55	1
Barium	ND		2.0	0.75	ug/L		09/14/23 00:57	09/19/23 15:55	1
Beryllium	ND		0.50	0.12	ug/L		09/14/23 00:57	09/19/23 15:55	1
Cadmium	ND		0.50	0.15	ug/L		09/14/23 00:57	09/19/23 15:55	1
Calcium	ND		120	50	ug/L		09/14/23 00:57	09/19/23 15:55	1
Chromium	ND		2.0	0.55	ug/L		09/14/23 00:57	09/19/23 15:55	1
Cobalt	ND		0.50	0.16	ug/L		09/14/23 00:57	09/19/23 15:55	1
Copper	ND		1.0	0.36	ug/L		09/14/23 00:57	09/19/23 15:55	1
Iron	ND		50	20	ug/L		09/14/23 00:57	09/19/23 15:55	1
Lead	ND		0.50	0.12	ug/L		09/14/23 00:57	09/19/23 15:55	1
Magnesium	ND		50	16	ug/L		09/14/23 00:57	09/19/23 15:55	1
Manganese	ND		2.0	0.95	ug/L		09/14/23 00:57	09/19/23 15:55	1
Nickel	ND		1.0	0.40	ug/L		09/14/23 00:57	09/19/23 15:55	1
Potassium	ND		200	65	ug/L		09/14/23 00:57	09/19/23 15:55	1
Selenium	ND		1.0	0.28	ug/L		09/14/23 00:57	09/19/23 15:55	1
Silver	ND		0.50	0.10	ug/L		09/14/23 00:57	09/19/23 15:55	1
Sodium	ND		200	90	ug/L		09/14/23 00:57	09/19/23 15:55	1
Thallium	ND		0.50	0.13	ug/L		09/14/23 00:57	09/19/23 15:55	1
Vanadium	ND		4.0	0.79	ug/L		09/14/23 00:57	09/19/23 15:55	1
Zinc	ND		10	4.0	ug/L		09/14/23 00:57	09/19/23 15:55	1

Lab Sample ID: LCS 410-419238/2-A
Matrix: Water
Analysis Batch: 421373

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 419238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	97.3		ug/L		97	85 - 115
Aluminum	5000	4950		ug/L		99	85 - 115
Arsenic	500	499		ug/L		100	85 - 115
Barium	500	481		ug/L		96	85 - 115
Beryllium	50.0	52.2		ug/L		104	85 - 115
Cadmium	50.0	50.0		ug/L		100	85 - 115
Calcium	5000	5040		ug/L		101	85 - 115
Chromium	500	495		ug/L		99	85 - 115
Cobalt	500	495		ug/L		99	85 - 115
Copper	500	502		ug/L		100	85 - 115
Iron	5000	5030		ug/L		101	85 - 115
Lead	50.0	50.6		ug/L		101	85 - 115
Magnesium	5000	4940		ug/L		99	85 - 115
Manganese	500	501		ug/L		100	85 - 115
Nickel	500	503		ug/L		101	85 - 115
Potassium	5000	5050		ug/L		101	85 - 115
Selenium	100	101		ug/L		101	85 - 115
Silver	50.0	49.1		ug/L		98	85 - 115
Sodium	5000	4910		ug/L		98	85 - 115
Thallium	100	99.7		ug/L		100	85 - 115
Vanadium	500	500		ug/L		100	85 - 115
Zinc	500	504		ug/L		101	85 - 115

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: 410-142424-1 MS
Matrix: Groundwater
Analysis Batch: 421373

Client Sample ID: RCS Influent
Prep Type: Total Recoverable
Prep Batch: 419238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		100	99.8		ug/L		100	70 - 130
Aluminum	ND		5000	4830		ug/L		97	70 - 130
Arsenic	4.9		500	510		ug/L		101	70 - 130
Barium	330		500	821		ug/L		98	70 - 130
Beryllium	ND		50.0	53.0		ug/L		106	70 - 130
Cadmium	ND		50.0	47.9		ug/L		96	70 - 130
Chromium	ND		500	482		ug/L		96	70 - 130
Cobalt	1.6		500	471		ug/L		94	70 - 130
Copper	0.51	J	500	480		ug/L		96	70 - 130
Iron	4700		5000	9450		ug/L		96	70 - 130
Lead	ND		50.0	47.5		ug/L		95	70 - 130
Magnesium	87000		5000	89200	4	ug/L		50	70 - 130
Manganese	2800		500	3300	4	ug/L		90	70 - 130
Nickel	3.3		500	480		ug/L		95	70 - 130
Potassium	19000		5000	23300		ug/L		94	70 - 130
Selenium	ND		100	104		ug/L		104	70 - 130
Silver	ND		50.0	46.4		ug/L		93	70 - 130
Thallium	ND		100	95.1		ug/L		95	70 - 130
Vanadium	ND		500	495		ug/L		99	70 - 130
Zinc	ND		500	492		ug/L		98	70 - 130

Lab Sample ID: 410-142424-1 MS
Matrix: Groundwater
Analysis Batch: 421373

Client Sample ID: RCS Influent
Prep Type: Total Recoverable
Prep Batch: 419238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	150000		5000	158000	4	ug/L		98	70 - 130
Sodium	530000		5000	536000	4	ug/L		39	70 - 130

Lab Sample ID: 410-142424-1 DU
Matrix: Groundwater
Analysis Batch: 421373

Client Sample ID: RCS Influent
Prep Type: Total Recoverable
Prep Batch: 419238

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		ug/L		NC	20
Aluminum	ND		ND		ug/L		NC	20
Arsenic	4.9		5.17		ug/L		6	20
Barium	330		330		ug/L		0.3	20
Beryllium	ND		ND		ug/L		NC	20
Cadmium	ND		ND		ug/L		NC	20
Chromium	ND		ND		ug/L		NC	20
Cobalt	1.6		1.73		ug/L		5	20
Copper	0.51	J	0.590	J	ug/L		14	20
Iron	4700		4750		ug/L		2	20
Lead	ND		ND		ug/L		NC	20
Magnesium	87000		86800		ug/L		0.2	20
Manganese	2800		2890		ug/L		1	20
Nickel	3.3		2.53	F5	ug/L		25	20
Potassium	19000		18900		ug/L		2	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-142424-1 DU
Matrix: Groundwater
Analysis Batch: 421373

Client Sample ID: RCS Influent
Prep Type: Total Recoverable
Prep Batch: 419238

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Selenium	ND		ND		ug/L		NC	20
Silver	ND		ND		ug/L		NC	20
Thallium	ND		ND		ug/L		NC	20
Vanadium	ND		ND		ug/L		NC	20
Zinc	ND		ND		ug/L		NC	20

Lab Sample ID: 410-142424-1 DU
Matrix: Groundwater
Analysis Batch: 421373

Client Sample ID: RCS Influent
Prep Type: Total Recoverable
Prep Batch: 419238

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	150000		149000		ug/L		3	20
Sodium	530000		509000		ug/L		5	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-419254/1-A
Matrix: Water
Analysis Batch: 420169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000079	mg/L		09/14/23 02:51	09/15/23 20:16	1

Lab Sample ID: LCS 410-419254/2-A
Matrix: Water
Analysis Batch: 420169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.00105		mg/L		105	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 410-422372/1
Matrix: Water
Analysis Batch: 422372

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			09/21/23 17:42	1

Lab Sample ID: LCS 410-422372/2
Matrix: Water
Analysis Batch: 422372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil & Grease)	40.0	32.40		mg/L		81	78 - 114

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCSD 410-422372/3
Matrix: Water
Analysis Batch: 422372

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM (Oil & Grease)			40.0	32.50		mg/L		81	78 - 114	0	13

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-419147/3
Matrix: Water
Analysis Batch: 419147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		1.0	1.0	NTU			09/13/23 17:46	1

Lab Sample ID: LCS 410-419147/4
Matrix: Water
Analysis Batch: 419147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Turbidity			10.0	10		NTU		101	86 - 110		

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-420089/24
Matrix: Water
Analysis Batch: 420089

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			09/15/23 11:20	1

Lab Sample ID: MB 410-420089/5
Matrix: Water
Analysis Batch: 420089

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	ND		8.0	2.6	mg/L			09/15/23 09:14	1

Lab Sample ID: LCS 410-420089/26
Matrix: Water
Analysis Batch: 420089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			189	180		mg/L		95	66 - 110		

Lab Sample ID: LCS 410-420089/7
Matrix: Water
Analysis Batch: 420089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			189	181		mg/L		96	66 - 110		

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-423943/4
Matrix: Water
Analysis Batch: 423943

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			09/26/23 03:44	1

Lab Sample ID: LCS 410-423943/5
Matrix: Water
Analysis Batch: 423943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Hardness	40.0	37.5		mg/L		94	90 - 110

Lab Sample ID: 410-142424-1 DU
Matrix: Groundwater
Analysis Batch: 423943

Client Sample ID: RCS Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Hardness	690		764		mg/L		10	10

Lab Sample ID: MB 410-424060/4
Matrix: Water
Analysis Batch: 424060

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	ND		10	3.0	mg/L			09/26/23 17:34	1

Lab Sample ID: LCS 410-424060/5
Matrix: Water
Analysis Batch: 424060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Hardness	40.0	39.6		mg/L		99	90 - 110

Lab Sample ID: 410-142424-2 MS
Matrix: Surface Water
Analysis Batch: 424060

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Hardness	3400	F1	1000	4820	F1	mg/L		146	90 - 110

Lab Sample ID: 410-142424-2 DU
Matrix: Surface Water
Analysis Batch: 424060

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Hardness	3400	F1	3220		mg/L		4	10

Method: 2510B-2011 - Conductivity, Specific Conductance

Lab Sample ID: MB 410-419312/3
Matrix: Water
Analysis Batch: 419312

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			09/13/23 22:40	1

Lab Sample ID: MB 410-419312/38
Matrix: Water
Analysis Batch: 419312

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			09/14/23 00:13	1

Lab Sample ID: LCS 410-419312/39
Matrix: Water
Analysis Batch: 419312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1380		umhos/cm		98	90 - 110

Lab Sample ID: LCS 410-419312/4
Matrix: Water
Analysis Batch: 419312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1390		umhos/cm		98	90 - 110

Lab Sample ID: 410-142424-2 DU
Matrix: Surface Water
Analysis Batch: 419312

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	41000		40400		umhos/cm		0.5	10

Method: 2540C - 2015 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-419120/1
Matrix: Water
Analysis Batch: 419120

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			09/13/23 16:47	1

Lab Sample ID: LCS 410-419120/2
Matrix: Water
Analysis Batch: 419120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	202		mg/L		101	90 - 110

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-418957/1
Matrix: Water
Analysis Batch: 418957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.0	1.0	mg/L			09/13/23 11:19	1

Lab Sample ID: LCS 410-418957/2
Matrix: Water
Analysis Batch: 418957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	142		mg/L		95	89 - 105

Lab Sample ID: MB 410-419380/1
Matrix: Water
Analysis Batch: 419380

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.0	1.0	mg/L			09/14/23 09:06	1

Lab Sample ID: LCS 410-419380/2
Matrix: Water
Analysis Batch: 419380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	145		mg/L		97	89 - 105

Method: 2540F-2015 - Solids, Settleable

Lab Sample ID: MB 410-419145/1
Matrix: Water
Analysis Batch: 419145

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Settleable Solids	ND		0.10	0.10	mL/L			09/13/23 17:20	1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-421231/2-A
Matrix: Water
Analysis Batch: 421758

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		09/19/23 15:45	09/20/23 09:53	1

Lab Sample ID: LCS 410-421231/1-A
Matrix: Water
Analysis Batch: 421758

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.86	5.26		mg/L		108	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-419672/2-A
Matrix: Water
Analysis Batch: 420117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as PO4	ND		0.31	0.25	mg/L		09/14/23 20:30	09/15/23 12:24	1

Lab Sample ID: LCS 410-419672/1-A
Matrix: Water
Analysis Batch: 420117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as PO4	3.99	4.38		mg/L		110	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 410-421399/4
Matrix: Water
Analysis Batch: 421399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		75	25	mg/L			09/19/23 10:24	1

Lab Sample ID: LCS 410-421399/5
Matrix: Water
Analysis Batch: 421399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	500	520		mg/L		104	90 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-420000/19
Matrix: Water
Analysis Batch: 420000

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			09/15/23 10:32	1

Lab Sample ID: MB 410-420000/52
Matrix: Water
Analysis Batch: 420000

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.020	0.010	mg/L			09/15/23 12:11	1

Lab Sample ID: LCS 410-420000/17
Matrix: Water
Analysis Batch: 420000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.237		mg/L		95	90 - 110

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 410-420000/48
Matrix: Water
Analysis Batch: 420000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.239		mg/L		95	90 - 110

Lab Sample ID: LCSD 410-420000/18
Matrix: Water
Analysis Batch: 420000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.250	0.238		mg/L		95	90 - 110	1	6

Lab Sample ID: LCSD 410-420000/51
Matrix: Water
Analysis Batch: 420000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.250	0.236		mg/L		94	90 - 110	1	6

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 410-419974/29
Matrix: Water
Analysis Batch: 419974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		101	95 - 105

Lab Sample ID: 410-142424-2 DU
Matrix: Surface Water
Analysis Batch: 419974

Client Sample ID: RECEIVING-WATER-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.1	HF	7.2		S.U.		2	4
Temperature	23.4	HF	23.5		Degrees C		0.1	4

Lab Sample ID: LCS 410-420090/25
Matrix: Water
Analysis Batch: 420090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		101	95 - 105

Method: 5210 B-2016 - BOD, 5-Day

Lab Sample ID: SCB 410-420953/4
Matrix: Water
Analysis Batch: 420953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.931		0.0000010	0.0000010	mg/L			09/13/23 12:50	1

Method: 5210 B-2016 - BOD, 5-Day (Continued)

Lab Sample ID: USB 410-420953/2
Matrix: Water
Analysis Batch: 420953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.00333		0.0000010	0.0000010	mg/L			09/13/23 12:50	1

Lab Sample ID: LCS 410-420953/73
Matrix: Water
Analysis Batch: 420953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	199	181		mg/L		91	85 - 115

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 410-420413/34
Matrix: Water
Analysis Batch: 420413

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000	500	ug/L			09/15/23 13:40	1
TOC Result 1	ND		1000	500	ug/L			09/15/23 13:40	1
TOC Result 2	ND		1000	500	ug/L			09/15/23 13:40	1
TOC Result 3	ND		1000	500	ug/L			09/15/23 13:40	1
TOC Result 4	ND		1000	500	ug/L			09/15/23 13:40	1

Lab Sample ID: LCS 410-420413/3
Matrix: Water
Analysis Batch: 420413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	25000	26300		ug/L		105	91 - 113

Lab Sample ID: LCS 410-420413/33
Matrix: Water
Analysis Batch: 420413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	25000	26600		ug/L		106	91 - 113

GC/MS VOA

Analysis Batch: 420317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-3	QAQC_TB	Total/NA	Water	624.1	
MB 410-420317/6	Method Blank	Total/NA	Water	624.1	
LCS 410-420317/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-420317/1004	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 421245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-3	QAQC_TB	Total/NA	Water	8260D	
MB 410-421245/6	Method Blank	Total/NA	Water	8260D	
LCS 410-421245/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 421977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	624.1	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	624.1	
MB 410-421977/5	Method Blank	Total/NA	Water	624.1	
LCS 410-421977/1003	Lab Control Sample	Total/NA	Water	624.1	
LCS 410-421977/1004	Lab Control Sample	Total/NA	Water	624.1	
410-142424-2 MS	RECEIVING-WATER-001	Total/NA	Surface Water	624.1	
410-142424-2 MSD	RECEIVING-WATER-001	Total/NA	Surface Water	624.1	

Analysis Batch: 422576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	8260D	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	8260D	
MB 410-422576/6	Method Blank	Total/NA	Water	8260D	
LCS 410-422576/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 419582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	625.1	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	625.1	
MB 410-419582/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-419582/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCS 410-419582/4-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-419582/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
LCSD 410-419582/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 419674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	625.1	419582
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	625.1	419582
MB 410-419582/1-A	Method Blank	Total/NA	Water	625.1	419582
LCS 410-419582/2-A	Lab Control Sample	Total/NA	Water	625.1	419582
LCS 410-419582/4-A	Lab Control Sample	Total/NA	Water	625.1	419582
LCSD 410-419582/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	419582
LCSD 410-419582/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	419582

GC VOA

Analysis Batch: 421053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	8015C	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	8015C	
MB 410-421053/5	Method Blank	Total/NA	Water	8015C	
LCS 410-421053/6	Lab Control Sample	Total/NA	Water	8015C	
LCSD 410-421053/7	Lab Control Sample Dup	Total/NA	Water	8015C	

Analysis Batch: 423336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	RSK-175	423403
MB 410-423403/1-A	Method Blank	Total/NA	Water	RSK-175	423403
LCS 410-423403/2-A	Lab Control Sample	Total/NA	Water	RSK-175	423403
LCSD 410-423403/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	423403

Prep Batch: 423403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	RSK-175	
MB 410-423403/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-423403/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-423403/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 423788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1 - DL	RCS Influent	Total/NA	Groundwater	RSK-175	423842
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	RSK-175	423982
MB 410-423842/1-A	Method Blank	Total/NA	Water	RSK-175	423842
MB 410-423982/1-A	Method Blank	Total/NA	Water	RSK-175	423982
LCS 410-423842/2-A	Lab Control Sample	Total/NA	Water	RSK-175	423842
LCS 410-423982/2-A	Lab Control Sample	Total/NA	Water	RSK-175	423982
LCSD 410-423842/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	423842
LCSD 410-423982/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	423982

Prep Batch: 423842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1 - DL	RCS Influent	Total/NA	Groundwater	RSK-175	
MB 410-423842/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-423842/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-423842/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Prep Batch: 423982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	RSK-175	
MB 410-423982/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-423982/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-423982/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

GC Semi VOA

Prep Batch: 419812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	3510C	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 419812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-419812/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-419812/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-419812/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 420087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	8015C	419812
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	8015C	419812
MB 410-419812/1-A	Method Blank	Total/NA	Water	8015C	419812
LCS 410-419812/2-A	Lab Control Sample	Total/NA	Water	8015C	419812
LCSD 410-419812/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	419812

HPLC/IC

Analysis Batch: 422924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	EPA 300.0 R2.1	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 410-422924/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-422924/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-422924/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 422933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 410-422933/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-422933/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-422933/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 423588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	EPA 300.0 R2.1	
MB 410-423588/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-423588/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-423588/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 419237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-2	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	
MB 410-419237/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-419237/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Prep Batch: 419238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	
MB 410-419238/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-419238/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	
410-142424-1 MS	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	
410-142424-1 DU	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	

Metals

Prep Batch: 419254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	245.1	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	245.1	
MB 410-419254/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-419254/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 420169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	245.1	419254
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	245.1	419254
MB 410-419254/1-A	Method Blank	Total/NA	Water	245.1	419254
LCS 410-419254/2-A	Lab Control Sample	Total/NA	Water	245.1	419254

Analysis Batch: 420400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-2	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	419237
410-142424-2	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	419237
MB 410-419237/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	419237
LCS 410-419237/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	419237

Analysis Batch: 421373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	419238
410-142424-1	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	419238
MB 410-419238/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	419238
LCS 410-419238/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	419238
410-142424-1 MS	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	419238
410-142424-1 MS	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	419238
410-142424-1 DU	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	419238
410-142424-1 DU	RCS Influent	Total Recoverable	Groundwater	200.8 Rev 5.4	419238

Analysis Batch: 421630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-2	RECEIVING-WATER-001	Total Recoverable	Surface Water	200.8 Rev 5.4	419237

General Chemistry

Analysis Batch: 413593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	SM 2330B	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	SM 2330B	

Analysis Batch: 418957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	2540D-2015	
MB 410-418957/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-418957/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 419028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	353.2	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	353.2	

General Chemistry

Analysis Batch: 419120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	2540C - 2015	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	2540C - 2015	
MB 410-419120/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-419120/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 419145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	2540F-2015	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	2540F-2015	
MB 410-419145/1	Method Blank	Total/NA	Water	2540F-2015	

Analysis Batch: 419147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	180.1	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	180.1	
MB 410-419147/3	Method Blank	Total/NA	Water	180.1	
LCS 410-419147/4	Lab Control Sample	Total/NA	Water	180.1	

Analysis Batch: 419312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	2510B-2011	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	2510B-2011	
MB 410-419312/3	Method Blank	Total/NA	Water	2510B-2011	
MB 410-419312/38	Method Blank	Total/NA	Water	2510B-2011	
LCS 410-419312/39	Lab Control Sample	Total/NA	Water	2510B-2011	
LCS 410-419312/4	Lab Control Sample	Total/NA	Water	2510B-2011	
410-142424-2 DU	RECEIVING-WATER-001	Total/NA	Surface Water	2510B-2011	

Analysis Batch: 419380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	2540D-2015	
MB 410-419380/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-419380/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Prep Batch: 419672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	365.1	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	365.1	
MB 410-419672/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-419672/1-A	Lab Control Sample	Total/NA	Water	365.1	

Analysis Batch: 419974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	4500 H+ B-2011	
LCS 410-419974/29	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	
410-142424-2 DU	RECEIVING-WATER-001	Total/NA	Surface Water	4500 H+ B-2011	

Analysis Batch: 420000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	420.4	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	420.4	

General Chemistry (Continued)

Analysis Batch: 420000 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-420000/19	Method Blank	Total/NA	Water	420.4	
MB 410-420000/52	Method Blank	Total/NA	Water	420.4	
LCS 410-420000/17	Lab Control Sample	Total/NA	Water	420.4	
LCS 410-420000/48	Lab Control Sample	Total/NA	Water	420.4	
LCSD 410-420000/18	Lab Control Sample Dup	Total/NA	Water	420.4	
LCSD 410-420000/51	Lab Control Sample Dup	Total/NA	Water	420.4	

Analysis Batch: 420089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	2320B-2011	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	2320B-2011	
MB 410-420089/24	Method Blank	Total/NA	Water	2320B-2011	
MB 410-420089/5	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-420089/26	Lab Control Sample	Total/NA	Water	2320B-2011	
LCS 410-420089/7	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 420090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	4500 H+ B-2011	
LCS 410-420090/25	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 420117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	365.1	419672
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	365.1	419672
MB 410-419672/2-A	Method Blank	Total/NA	Water	365.1	419672
LCS 410-419672/1-A	Lab Control Sample	Total/NA	Water	365.1	419672

Analysis Batch: 420413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	9060A	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	9060A	
MB 410-420413/34	Method Blank	Total/NA	Water	9060A	
LCS 410-420413/3	Lab Control Sample	Total/NA	Water	9060A	
LCS 410-420413/33	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 420953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	5210 B-2016	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	5210 B-2016	
SCB 410-420953/4	Method Blank	Total/NA	Water	5210 B-2016	
USB 410-420953/2	Method Blank	Total/NA	Water	5210 B-2016	
LCS 410-420953/73	Lab Control Sample	Total/NA	Water	5210 B-2016	

Prep Batch: 421231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	351.2	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	351.2	
MB 410-421231/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-421231/1-A	Lab Control Sample	Total/NA	Water	351.2	

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

General Chemistry

Analysis Batch: 421399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	410.4	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	410.4	
MB 410-421399/4	Method Blank	Total/NA	Water	410.4	
LCS 410-421399/5	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 421758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	351.2	421231
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	351.2	421231
MB 410-421231/2-A	Method Blank	Total/NA	Water	351.2	421231
LCS 410-421231/1-A	Lab Control Sample	Total/NA	Water	351.2	421231

Analysis Batch: 422372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	1664A	
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	1664A	
MB 410-422372/1	Method Blank	Total/NA	Water	1664A	
LCS 410-422372/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 410-422372/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 423943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-1	RCS Influent	Total/NA	Groundwater	2340C-2011	
MB 410-423943/4	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-423943/5	Lab Control Sample	Total/NA	Water	2340C-2011	
410-142424-1 DU	RCS Influent	Total/NA	Groundwater	2340C-2011	

Analysis Batch: 424060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-142424-2	RECEIVING-WATER-001	Total/NA	Surface Water	2340C-2011	
MB 410-424060/4	Method Blank	Total/NA	Water	2340C-2011	
LCS 410-424060/5	Lab Control Sample	Total/NA	Water	2340C-2011	
410-142424-2 MS	RECEIVING-WATER-001	Total/NA	Surface Water	2340C-2011	
410-142424-2 DU	RECEIVING-WATER-001	Total/NA	Surface Water	2340C-2011	

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: RCS Influent

Date Collected: 09/12/23 09:35
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-1

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	421977	UJML	ELLE	09/21/23 14:34
Total/NA	Analysis	8260D		1	422576	UKAD	ELLE	09/22/23 16:04
Total/NA	Prep	625.1			419582	QJZ6	ELLE	09/14/23 15:25
Total/NA	Analysis	625.1		1	419674	SJ89	ELLE	09/15/23 02:10
Total/NA	Analysis	8015C		1	421053	SE8S	ELLE	09/19/23 23:16
Total/NA	Prep	RSK-175			423403	HQR6	ELLE	09/25/23 10:27
Total/NA	Analysis	RSK-175		1	423336	LXF2	ELLE	09/25/23 14:04
Total/NA	Prep	RSK-175	DL		423842	HQR6	ELLE	09/26/23 09:58
Total/NA	Analysis	RSK-175	DL	10	423788	WN7O	ELLE	09/26/23 15:21
Total/NA	Prep	3510C			419812	QKX3	ELLE	09/15/23 08:06
Total/NA	Analysis	8015C		1	420087	UHEW	ELLE	09/16/23 04:14
Total/NA	Analysis	EPA 300.0 R2.1		20	422924	W7FX	ELLE	09/23/23 15:43
Total/NA	Analysis	EPA 300.0 R2.1		500	423588	L4QM	ELLE	09/26/23 11:32
Total Recoverable	Prep	200.8 Rev 5.4			419238	HUH3	ELLE	09/14/23 00:57
Total Recoverable	Analysis	200.8 Rev 5.4		1	421373	UCIG	ELLE	09/19/23 16:05
Total Recoverable	Prep	200.8 Rev 5.4			419238	HUH3	ELLE	09/14/23 00:57
Total Recoverable	Analysis	200.8 Rev 5.4		10	421373	UCIG	ELLE	09/19/23 16:25
Total/NA	Prep	245.1			419254	UAMX	ELLE	09/14/23 02:51
Total/NA	Analysis	245.1		1	420169	UEFS	ELLE	09/15/23 20:37
Total/NA	Analysis	1664A		1	422372	QT6L	ELLE	09/21/23 17:42
Total/NA	Analysis	180.1		5	419147	UDS7	ELLE	09/13/23 17:48
Total/NA	Analysis	2320B-2011		1	420089	DI9Q	ELLE	09/15/23 15:38
Total/NA	Analysis	2340C-2011		10	423943	USAE	ELLE	09/26/23 05:03
Total/NA	Analysis	2510B-2011		1	419312	DI9Q	ELLE	09/14/23 01:29
Total/NA	Analysis	2540C - 2015		1	419120	UOCA	ELLE	09/13/23 16:47
Total/NA	Analysis	2540D-2015		1	419380	M98K	ELLE	09/14/23 09:06 - 09/15/23 08:10 [1]
Total/NA	Analysis	2540F-2015		1	419145	UDS7	ELLE	09/13/23 17:20
Total/NA	Prep	351.2			421231	NLE3	ELLE	09/19/23 15:45 - 09/19/23 18:45 [1]
Total/NA	Analysis	351.2		1	421758	JCG7	ELLE	09/20/23 10:18
Total/NA	Analysis	353.2		1	419028	USJM	ELLE	09/13/23 14:25
Total/NA	Prep	365.1			419672	NLE3	ELLE	09/14/23 20:30 - 09/14/23 21:30 [1]
Total/NA	Analysis	365.1		1	420117	JCG7	ELLE	09/15/23 12:28
Total/NA	Analysis	410.4		1	421399	USAE	ELLE	09/19/23 11:58
Total/NA	Analysis	420.4		1	420000	Q3HN	ELLE	09/15/23 11:32
Total/NA	Analysis	4500 H+ B-2011		1	420090	DI9Q	ELLE	09/15/23 15:38
Total/NA	Analysis	5210 B-2016		1	420953	B6LN	ELLE	09/13/23 21:35
Total/NA	Analysis	9060A		1	420413	P684	ELLE	09/15/23 20:01
Total/NA	Analysis	SM 2330B		1	413593	USJM	ELLE	09/13/23 05:23

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: RECEIVING-WATER-001

Date Collected: 09/12/23 10:27
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-2

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	421977	UJML	ELLE	09/21/23 15:19
Total/NA	Analysis	8260D		1	422576	UKAD	ELLE	09/22/23 16:26
Total/NA	Prep	625.1			419582	QJZ6	ELLE	09/14/23 15:25
Total/NA	Analysis	625.1		1	419674	SJ89	ELLE	09/15/23 02:32
Total/NA	Analysis	8015C		1	421053	SE8S	ELLE	09/19/23 23:42
Total/NA	Prep	RSK-175			423982	HQR6	ELLE	09/26/23 15:32
Total/NA	Analysis	RSK-175		1	423788	WN7O	ELLE	09/26/23 17:51
Total/NA	Prep	3510C			419812	QKX3	ELLE	09/15/23 08:06
Total/NA	Analysis	8015C		1	420087	UHEW	ELLE	09/16/23 04:37
Total/NA	Analysis	EPA 300.0 R2.1		5000	422924	W7FX	ELLE	09/23/23 13:43
Total/NA	Analysis	EPA 300.0 R2.1		500	422933	L4QM	ELLE	09/26/23 13:09
Total Recoverable	Prep	200.8 Rev 5.4			419237	HUH3	ELLE	09/14/23 00:53
Total Recoverable	Analysis	200.8 Rev 5.4		100	421630	F7JF	ELLE	09/20/23 10:49
Total Recoverable	Prep	200.8 Rev 5.4			419237	HUH3	ELLE	09/14/23 00:53
Total Recoverable	Analysis	200.8 Rev 5.4		1	420400	LC3M	ELLE	09/17/23 17:20
Total Recoverable	Prep	200.8 Rev 5.4			419237	HUH3	ELLE	09/14/23 00:53
Total Recoverable	Analysis	200.8 Rev 5.4		100	420400	LC3M	ELLE	09/17/23 19:26
Total/NA	Prep	245.1			419254	UAMX	ELLE	09/14/23 02:51
Total/NA	Analysis	245.1		1	420169	UEFS	ELLE	09/15/23 20:52
Total/NA	Analysis	1664A		1	422372	QT6L	ELLE	09/21/23 17:42
Total/NA	Analysis	180.1		1	419147	UDS7	ELLE	09/13/23 17:48
Total/NA	Analysis	2320B-2011		5	420089	DI9Q	ELLE	09/15/23 10:02
Total/NA	Analysis	2340C-2011		25	424060	USAE	ELLE	09/26/23 17:52
Total/NA	Analysis	2510B-2011		200	419312	DI9Q	ELLE	09/13/23 22:46
Total/NA	Analysis	2540C - 2015		1	419120	UOCA	ELLE	09/13/23 16:47
Total/NA	Analysis	2540D-2015		1	418957	M98K	ELLE	09/13/23 11:19 - 09/14/23 07:00 [1]
Total/NA	Analysis	2540F-2015		1	419145	UDS7	ELLE	09/13/23 17:20
Total/NA	Prep	351.2			421231	NLE3	ELLE	09/19/23 15:45 - 09/19/23 18:45 [1]
Total/NA	Analysis	351.2		1	421758	JCG7	ELLE	09/20/23 10:20
Total/NA	Analysis	353.2		1	419028	USJM	ELLE	09/13/23 14:25
Total/NA	Prep	365.1			419672	NLE3	ELLE	09/14/23 20:30 - 09/14/23 21:30 [1]
Total/NA	Analysis	365.1		1	420117	JCG7	ELLE	09/15/23 12:28
Total/NA	Analysis	410.4		1	421399	USAE	ELLE	09/19/23 11:58
Total/NA	Analysis	420.4		5	420000	Q3HN	ELLE	09/15/23 12:37
Total/NA	Analysis	4500 H+ B-2011		1	419974	DI9Q	ELLE	09/14/23 21:25
Total/NA	Analysis	5210 B-2016		1	420953	B6LN	ELLE	09/13/23 22:15
Total/NA	Analysis	9060A		1	420413	P684	ELLE	09/15/23 20:39
Total/NA	Analysis	SM 2330B		1	413593	USJM	ELLE	09/13/23 05:23

Lab Chronicle

Client: Roux Environmental Eng & Geology DPC
Project/Site: EMGPRP-31097

Job ID: 410-142424-1

Client Sample ID: QAQC_TB

Date Collected: 09/06/23 00:00
Date Received: 09/12/23 20:40

Lab Sample ID: 410-142424-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	420317	TQ4J	ELLE	09/17/23 15:59
Total/NA	Analysis	8260D		1	421245	K4YF	ELLE	09/19/23 21:03

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

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
365.1	365.1	Groundwater	Total Phosphorus as PO4
365.1	365.1	Surface Water	Total Phosphorus as PO4
4500 H+ B-2011		Groundwater	pH
4500 H+ B-2011		Groundwater	Temperature
4500 H+ B-2011		Surface Water	pH
4500 H+ B-2011		Surface Water	Temperature
624.1		Groundwater	1,1,1,2-Tetrachloroethane
624.1		Groundwater	1,1-Dichloropropene
624.1		Groundwater	1,2,3-Trichlorobenzene
624.1		Groundwater	1,2,3-Trichloropropane
624.1		Groundwater	1,2,4-Trichlorobenzene
624.1		Groundwater	1,2,4-Trimethylbenzene
624.1		Groundwater	1,2-Dibromo-3-Chloropropane
624.1		Groundwater	1,2-Dibromoethane
624.1		Groundwater	1,2-Dichloroethene (total)
624.1		Groundwater	1,3,5-Trimethylbenzene
624.1		Groundwater	1,3-Dichloropropane
624.1		Groundwater	1,4-Dioxane
624.1		Groundwater	2,2-Dichloropropane
624.1		Groundwater	2-Chloro-1,3-butadiene
624.1		Groundwater	2-Chlorotoluene
624.1		Groundwater	2-Hexanone
624.1		Groundwater	2-Propanol
624.1		Groundwater	4-Chlorotoluene
624.1		Groundwater	Benzyl chloride
624.1		Groundwater	Bromobenzene
624.1		Groundwater	Butyl acetate
624.1		Groundwater	Carbon disulfide
624.1		Groundwater	Cyclohexane
624.1		Groundwater	Dibromomethane
624.1		Groundwater	Dichlorofluoromethane
624.1		Groundwater	di-Isopropyl ether
624.1		Groundwater	Ethyl methacrylate
624.1		Groundwater	Ethyl t-butyl ether
624.1		Groundwater	Freon 123a
624.1		Groundwater	Hexachlorobutadiene
624.1		Groundwater	Isobutyl alcohol
624.1		Groundwater	Isopropyl acetate
624.1		Groundwater	Isopropylbenzene
624.1		Groundwater	Methacrylonitrile
624.1		Groundwater	Methyl iodide
624.1		Groundwater	Methyl methacrylate
624.1		Groundwater	n-Butylbenzene
624.1		Groundwater	n-Heptane
624.1		Groundwater	n-Hexane

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
624.1		Groundwater	n-Propyl acetate
624.1		Groundwater	N-Propylbenzene
624.1		Groundwater	p-Isopropyltoluene
624.1		Groundwater	Propionitrile
624.1		Groundwater	sec-Butylbenzene
624.1		Groundwater	t-Amyl methyl ether
624.1		Groundwater	tert-Butylbenzene
624.1		Groundwater	trans-1,4-Dichloro-2-butene
624.1		Surface Water	1,1,1,2-Tetrachloroethane
624.1		Surface Water	1,1-Dichloropropene
624.1		Surface Water	1,2,3-Trichlorobenzene
624.1		Surface Water	1,2,3-Trichloropropane
624.1		Surface Water	1,2,4-Trichlorobenzene
624.1		Surface Water	1,2,4-Trimethylbenzene
624.1		Surface Water	1,2-Dibromo-3-Chloropropane
624.1		Surface Water	1,2-Dibromoethane
624.1		Surface Water	1,2-Dichloroethene (total)
624.1		Surface Water	1,3,5-Trimethylbenzene
624.1		Surface Water	1,3-Dichloropropane
624.1		Surface Water	1,4-Dioxane
624.1		Surface Water	2,2-Dichloropropane
624.1		Surface Water	2-Chloro-1,3-butadiene
624.1		Surface Water	2-Chlorotoluene
624.1		Surface Water	2-Hexanone
624.1		Surface Water	2-Propanol
624.1		Surface Water	4-Chlorotoluene
624.1		Surface Water	Benzyl chloride
624.1		Surface Water	Bromobenzene
624.1		Surface Water	Butyl acetate
624.1		Surface Water	Carbon disulfide
624.1		Surface Water	Cyclohexane
624.1		Surface Water	Dibromomethane
624.1		Surface Water	Dichlorofluoromethane
624.1		Surface Water	di-Isopropyl ether
624.1		Surface Water	Ethyl methacrylate
624.1		Surface Water	Ethyl t-butyl ether
624.1		Surface Water	Freon 123a
624.1		Surface Water	Hexachlorobutadiene
624.1		Surface Water	Isobutyl alcohol
624.1		Surface Water	Isopropyl acetate
624.1		Surface Water	Isopropylbenzene
624.1		Surface Water	Methacrylonitrile
624.1		Surface Water	Methyl iodide
624.1		Surface Water	Methyl methacrylate
624.1		Surface Water	n-Butylbenzene
624.1		Surface Water	n-Heptane
624.1		Surface Water	n-Hexane

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
624.1		Surface Water	n-Propyl acetate
624.1		Surface Water	N-Propylbenzene
624.1		Surface Water	p-Isopropyltoluene
624.1		Surface Water	Propionitrile
624.1		Surface Water	sec-Butylbenzene
624.1		Surface Water	t-Amyl methyl ether
624.1		Surface Water	tert-Butylbenzene
624.1		Surface Water	trans-1,4-Dichloro-2-butene
624.1		Water	1,1,1,2-Tetrachloroethane
624.1		Water	1,1-Dichloropropene
624.1		Water	1,2,3-Trichlorobenzene
624.1		Water	1,2,3-Trichloropropane
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,2,4-Trimethylbenzene
624.1		Water	1,2-Dibromo-3-Chloropropane
624.1		Water	1,2-Dibromoethane
624.1		Water	1,2-Dichloroethene (total)
624.1		Water	1,3,5-Trimethylbenzene
624.1		Water	1,3-Dichloropropane
624.1		Water	1,4-Dioxane
624.1		Water	2,2-Dichloropropane
624.1		Water	2-Chloro-1,3-butadiene
624.1		Water	2-Chlorotoluene
624.1		Water	2-Hexanone
624.1		Water	2-Propanol
624.1		Water	4-Chlorotoluene
624.1		Water	Benzyl chloride
624.1		Water	Bromobenzene
624.1		Water	Butyl acetate
624.1		Water	Carbon disulfide
624.1		Water	Cyclohexane
624.1		Water	Dibromomethane
624.1		Water	Dichlorofluoromethane
624.1		Water	di-Isopropyl ether
624.1		Water	Ethyl methacrylate
624.1		Water	Ethyl t-butyl ether
624.1		Water	Freon 123a
624.1		Water	Hexachlorobutadiene
624.1		Water	Isobutyl alcohol
624.1		Water	Isopropyl acetate
624.1		Water	Isopropylbenzene
624.1		Water	Methacrylonitrile
624.1		Water	Methyl iodide
624.1		Water	Methyl methacrylate
624.1		Water	n-Butylbenzene
624.1		Water	n-Heptane
624.1		Water	n-Hexane

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
624.1		Water	n-Propyl acetate
624.1		Water	N-Propylbenzene
624.1		Water	p-Isopropyltoluene
624.1		Water	Propionitrile
624.1		Water	sec-Butylbenzene
624.1		Water	t-Amyl methyl ether
624.1		Water	tert-Butylbenzene
624.1		Water	trans-1,4-Dichloro-2-butene
625.1	625.1	Groundwater	1,1'-Biphenyl
625.1	625.1	Groundwater	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Groundwater	1,2-Dichlorobenzene
625.1	625.1	Groundwater	1,3-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dichlorobenzene
625.1	625.1	Groundwater	1,4-Dioxane
625.1	625.1	Groundwater	1-Methylnaphthalene
625.1	625.1	Groundwater	1-Methylphenanthrene
625.1	625.1	Groundwater	2,3,4,6-Tetrachlorophenol
625.1	625.1	Groundwater	2,6-Dichlorophenol
625.1	625.1	Groundwater	2-Nitroaniline
625.1	625.1	Groundwater	3-Nitroaniline
625.1	625.1	Groundwater	4-Chloroaniline
625.1	625.1	Groundwater	4-Nitroaniline
625.1	625.1	Groundwater	Benzoic acid
625.1	625.1	Groundwater	Benzyl alcohol
625.1	625.1	Groundwater	Dibenzofuran
625.1	625.1	Groundwater	Diphenyl ether
625.1	625.1	Groundwater	n-Docosane
625.1	625.1	Groundwater	n-Eicosane
625.1	625.1	Groundwater	n-Hexadecane
625.1	625.1	Groundwater	N-Nitrosodiethylamine
625.1	625.1	Groundwater	N-Nitrosodi-n-butylamine
625.1	625.1	Groundwater	N-Nitrosopyrrolidine
625.1	625.1	Groundwater	n-Tetradecane
625.1	625.1	Groundwater	o-Toluidine
625.1	625.1	Groundwater	Pentachlorobenzene
625.1	625.1	Surface Water	1,1'-Biphenyl
625.1	625.1	Surface Water	1,2,4,5-Tetrachlorobenzene
625.1	625.1	Surface Water	1,2-Dichlorobenzene
625.1	625.1	Surface Water	1,3-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dichlorobenzene
625.1	625.1	Surface Water	1,4-Dioxane
625.1	625.1	Surface Water	1-Methylnaphthalene
625.1	625.1	Surface Water	1-Methylphenanthrene
625.1	625.1	Surface Water	2,3,4,6-Tetrachlorophenol
625.1	625.1	Surface Water	2,6-Dichlorophenol
625.1	625.1	Surface Water	2-Nitroaniline
625.1	625.1	Surface Water	3-Nitroaniline

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
625.1	625.1	Surface Water	4-Chloroaniline
625.1	625.1	Surface Water	4-Nitroaniline
625.1	625.1	Surface Water	Benzoic acid
625.1	625.1	Surface Water	Benzyl alcohol
625.1	625.1	Surface Water	Dibenzofuran
625.1	625.1	Surface Water	Diphenyl ether
625.1	625.1	Surface Water	n-Docosane
625.1	625.1	Surface Water	n-Eicosane
625.1	625.1	Surface Water	n-Hexadecane
625.1	625.1	Surface Water	N-Nitrosodiethylamine
625.1	625.1	Surface Water	N-Nitrosodi-n-butylamine
625.1	625.1	Surface Water	N-Nitrosopyrrolidine
625.1	625.1	Surface Water	n-Tetradecane
625.1	625.1	Surface Water	o-Toluidine
625.1	625.1	Surface Water	Pentachlorobenzene
8015C	3510C	Groundwater	>C28-C35 (1C)
8015C	3510C	Surface Water	>C28-C35 (1C)
SM 2330B		Groundwater	Langelier Index
SM 2330B		Surface Water	Langelier Index

Method Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	ELLE
RSK-175	Dissolved Gases (GC)	RSK	ELLE
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664A	HEM and SGT-HEM	1664A	ELLE
180.1	Turbidity, Nephelometric	EPA	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
2340C-2011	Hardness, Total	SM	ELLE
2510B-2011	Conductivity, Specific Conductance	SM	ELLE
2540C - 2015	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
2540F-2015	Solids, Settleable	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
410.4	COD	EPA	ELLE
420.4	Phenolics, Total Recoverable	EPA	ELLE
4500 H+ B-2011	pH	SM	ELLE
5210 B-2016	BOD, 5-Day	SM	ELLE
9060A	Organic Carbon, Total (TOC)	SW846	ELLE
SM 2330B	Corrosivity, LSI Calculation	SM	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
5030C	Purge and Trap	SW846	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Roux Environmental Eng & Geology DPC
Job ID: 410-142424-1
Project/Site: EMGPRP-31097

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-142424-1	RCS Influent	Groundwater	09/12/23 09:35	09/12/23 20:40
410-142424-2	RECEIVING-WATER-001	Surface Water	09/12/23 10:27	09/12/23 20:40
410-142424-3	QAQC_TB	Water	09/06/23 00:00	09/12/23 20:40

Exx 410-142424 Chain of Custody est/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13438 Group # _____

EMES-Eurofins Agreement # A2604415

Consultant Company:	Roux Environmental Engineering and Geology, D.P.C.				
Site Address:	400 Kingsland Avenue	Site ID #:	EMGPRP-31097		
Consultant PM:	Courtney Lind	P.O. #:	0172.0030Y090	WAL#	5036
Sampler:	NK	XOM PM:	Michael J Burghardt		
Bill to:	☐ XOM ☑ Consultant				
State where samples were collected:	NY	For Compliance:	Yes ☑ No ☐		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☑ Sediment ☐ Tissue ☐	Water: Potable ☑ Ground ☐ Surface ☑ NPDES ☐	Other: Trip Blank	Total # of Containers	VOCs (624.1) MEK, Acetone, MTBE (H)	200.8, 245.1 (N)	625.1_PREC - (MOD) Priority Pollutants SVOCs (1)	300_ORGFM_28D - (MOD) Chloride/Sulfate (2)	SM5210B_Calc - BOD, 5-Day Only (1)	353.2_Pres - Nitrogen, Nitrate-Nitrite - preserved (S)	351.2, 365.1, 410.4 (S)	2320B, 2510B, 2540C_SingleDry. (2)	420.4 - Phenols (S)	353.2_Nitrite - Nitrogen, Nitrite (1)	2540D_Single_Dry - TSS (1)	SM2540F - Settleable Solids (1)	Turbidity (180.1) (1)	SM2330B - Local Method (1)	2340C - Local Method (N)	Oil&Grease (1664A) (H)	RSK_175 Methane Ethane Ethene (H)	9060A - Organic Carbon, Total (TOC) (P)	8015C TPH-DRO/ORO Standard TPH-DRO/ORO (H)	TPH-GRO (8015) #10598 (H)	Remarks
RCS INFLUENT	9/12/2023	9:35	X			X		34	6	1	2	1	1	1	2	2	1	1	1	1	1	1	1	2	2	2	2	3	
RECEIVING-WATER-001	9/12/2023	10:27	X			X		34	6	1	2	1	1	1	2	2	1	1	1	1	1	1	1	2	2	2	2	3	
QAQC_TB	9/6/2023	–					X	4	4																				

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

RUSH (Please circle one): 5 day 4day 72hour 48hour 24hour

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	OTHER	
Type III (Reduced non-CLP/NJ Reduced)	☐	Standard with QC summary	
TX TRRP-13	☐		
NJ DKQP	☐		
NYSDEC Category	☐ A ☐ B		

EDD Format(s) Needed: EQuIS and Excel

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/12/23	1620	RPM	12Sept23	1620
RPM	12Sept23	2040	[signature]		
[signature]			[signature]		
[signature]			[signature]		
[signature]			[signature]	9/13/23	2040

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

For Lab Use Only: SF #: _____ SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

Temp raw 2.0-3.1
cor 1.9-3.0

CoC #3
Page 1 of 1

SR

Login Sample Receipt Checklist

Client: Roux Environmental Eng & Geology DPC

Job Number: 410-142424-1

Login Number: 142424

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Knoedler, Christine M

Question	Answer	Comment
The cooler's custody seal 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

ATTACHMENT 2

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: ExxonMobil Greenpoint Petroleum Remediation Project		
Project Location (describe, and attach a general location map): 38 Varick Street, Brooklyn, NY		
Brief Description of Proposed Action (include purpose or need): The ExxonMobil Greenpoint Remediation Project (EMGPRP) operates under the oversight of the New York State Department of Environmental Conservation (NYSDEC), and in accordance with the requirements of the Consent Decree between the State of New York and ExxonMobil, filed on March 1, 2011, in the United States District Court, Eastern District of New York (Consent Decree). The EMGPRP is comprised of the Brooklyn Terminal Recovery and Containment System (RCS) and the Off-Site Free-Product Recovery System (ORS) which currently process groundwater extracted by the active EMGPRP recovery wells throughout the site. The EMGPRP provides petroleum hydrocarbon (free-product) recovery and groundwater treatment through a number of processes, including oil/water separation, aeration, flow equalization, filtration, and air stripping. The treated effluent from the RCS and the ORS are then conveyed to their respective SPDES outfalls for discharge (Outfall 01A / 001 for RCS and Outfall 002 for ORS). Under the proposed modifications, a new, single groundwater treatment facility will be constructed to process the entire groundwater flow generated by the ExxonMobil recovery well network. The two existing treatment facilities would be dismantled following construction and commissioning of the new facility. The treated effluent from that new facility would be discharged to Newtown Creek through the existing SPDES Outfall 002 located at the terminus of Meeker Avenue.		
Name of Applicant/Sponsor: ExxonMobil Oil Corporation, Att. Michael Burghardt	Telephone: 201 232 4417 E-Mail: michael.j.burghardt@exxonmobil.com	
Address: 38 Varick Street		
City/PO: Brooklyn	State: NY	Zip Code: 11222
Project Contact (if not same as sponsor; give name and title/role): Coutney Lind	Telephone: 631 232 2600 E-Mail: clind@rouxinc.com	
Address: 38 Varick Street		
City/PO: Brooklyn	State: NY	Zip Code: 11222
Property Owner (if not same as sponsor): Michael Burghardt	Telephone: 201 232 4417 E-Mail: michael.j.burghardt@exxonmobil.com	
Address: 38 Varick Street		
City/PO: Brooklyn	State: NY	Zip Code: 11222

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, or Village Board of Trustees ☐Yes ☐No		
b. City, Town or Village Planning Board or Commission ☐Yes ☐No		
c. City, Town or Village Zoning Board of Appeals ☐Yes ☐No		
d. Other local agencies ☐Yes ☐No		
e. County agencies ☐Yes ☐No		
f. Regional agencies ☐Yes ☐No		
g. State agencies ☑Yes ☐No	NYSDEC Division of Environmental Remediation	September 13, 2023 (Conceptual Design Report Submitted for Review and Approval)
h. Federal agencies ☐Yes ☐No		

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☑Yes ☐No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☑Yes ☐No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☐Yes ☑No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes ☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
M3-1 Heavy Industrial

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? District 14

b. What police or other public protection forces serve the project site?
94th Precinct

c. Which fire protection and emergency medical services serve the project site?
FDNY Engine 328 & Ladder 106

d. What parks serve the project site?
None

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Industrial

b. a. Total acreage of the site of the proposed action? 0.68 acres
b. Total acreage to be physically disturbed? 0.56 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0.68 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: 21 months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐ Yes ☑ No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☑ Yes ☐ No

If Yes,

i. Total number of structures 1

ii. Dimensions (in feet) of largest proposed structure: 30 height; 52 width; and 96 length

iii. Approximate extent of building space to be heated or cooled: 4992 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐ Yes ☑ No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐ Other specify:

_____

iii. If other than water, identify the type of impounded/contained liquids and their source.

_____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☑ Yes ☐ No
(Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

If Yes:

i .What is the purpose of the excavation or dredging? Excavation of property soils for foundation installation

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): approx. 2500 cy
- Over what duration of time? 1 -3 months

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

Site soils to be excavated for foundation and utility construction. Excavated soils will be sampled, characterized, and taken off-site for disposal in accordance with regulations.

iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☑ No

If yes, describe. _____

_____

v. What is the total area to be dredged or excavated? 0.11 acres

vi. What is the maximum area to be worked at any one time? 0.11 acres

vii. What would be the maximum depth of excavation or dredging? 15.5 feet

viii. Will the excavation require blasting? ☐ Yes ☑ No

ix. Summarize site reclamation goals and plan: _____

Construction of facility to house groundwater treatment system and associated equipment and materials in support of the ExxonMobil Greenpoint Petroleum Remediation Project.

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☑ No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

_____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

_____

_____

_____

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☐No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

_____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

_____

c. Will the proposed action use, or create a new demand for water? ☐Yes ☑No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐Yes ☐No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐Yes ☐No
- Is the project site in the existing district? ☐Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No
- Do existing lines serve the project site? ☐Yes ☐No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☐No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

_____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐Yes ☐No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

_____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐Yes ☑No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

_____

_____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐Yes ☐No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☐Yes ☐No
- Is the project site in the existing district? ☐Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No

- Do existing sewer lines serve the project site? ☐Yes ☐No
- Will a line extension within an existing district be necessary to serve the project? ☐Yes ☐No

  If Yes:
  - Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐Yes ☐No

If Yes:
- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐Yes ☑No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

_____

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐Yes ☐No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐Yes ☐No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☑Yes ☐No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

Heavy equipment (ex. excavators, crane)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

_____

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

Stack for treated air process emissions, outfall for treated process water discharge

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☑Yes ☐No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☑Yes ☐No

ii. In addition to emissions as calculated in the application, the project will generate:
- 628 Tons/year (short tons) of Carbon Dioxide (CO_2)
- -- Tons/year (short tons) of Nitrous Oxide (N_2O)
- -- Tons/year (short tons) of Perfluorocarbons (PFCs)
- -- Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- -- Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- 5.5 Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☑ Yes ☐ No

If Yes:

i. Estimate methane generation in tons/year (metric): 209

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): Methane eliminated by catalytic oxidation in existing flame-oxidation treatment unit located at 38 Varick Street. Proposed new groundwater treatment facility process air to be treated in existing treatment unit.

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐ Yes ☑ No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐ Yes ☑ No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐ Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

_____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐ Yes ☐ No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐ Yes ☐ No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐ Yes ☐ No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐ Yes ☐ No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐ Yes ☑ No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

_____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐ Yes ☐ No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 07:00-17:00
- Saturday: 07:00-17:00
- Sunday: _____
- Holidays: _____

ii. During Operations:

- Monday - Friday: 24 hr
- Saturday: 24 hr
- Sunday: 24 hr
- Holidays: 24 hr

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☑ Yes ☐ No

If yes:

i. Provide details including sources, time of day and duration:

07:00 to 17:00, normal construction activity including excavation, trucking, building construction as allowed by New York City Department of Building (NYCDOB) permitting.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe:

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

Typical commercial building lighting fixtures, light post, exterior building lighting fixtures as approved by NYCDOB permitting.

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☑ Yes ☐ No

Describe: Removal of trees and shrubs within proposed building footprint as approved by NYCDOB permitting.

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☑ Yes ☐ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

Typical exhaust and construction related odors. Potential soil and soil vapor odors during excavation activities. Community Air Monitoring will be performed throughout intrusive soil disturbing activities. Multiple commercial business present within 100 feet of proposed construction.

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☑ Yes ☐ No

If Yes:

i. Product(s) to be stored petroleum

ii. Volume(s) 4,000 gal per unit time monthly (e.g., month, year)

iii. Generally, describe the proposed storage facilities:

Existing tanks for temporary storage of recovered petroleum product as part of ongoing remedial activities at EMGPRP

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☑ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: 4000 tons per Year (unit of time)
- Operation : 35 tons per Year (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: Concrete and Asphalt
- Operation:

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: Proposed site soils disposal to off-site permitted disposal facility.
- Operation: Proposed solids disposal to High Acres Landfill in New York or other off-site permitted disposal facility.

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☑ Urban ☑ Industrial ☑ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

The 38 Varick project site will be utilized for EMGPRP treatment facility operation and supporting office space. The surrounding area is utilized for mixed industrial and commercial operations (e.g., third-party manufacturing, wholesale distribution) as well as urban residential housing.

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0.48	0.61	0.13
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: Landscaping	0.20	0.07	-0.13

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No

i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No

If Yes,

i. Identify Facilities:

_____

_____

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☑ Yes ☐ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

Empire State Varnish (ESV) Company owned and operated the site from the 1930s to 2008. Upon cessation of operations, all tanks/drums/containers and contaminated soil was sampled, removed, and properly disposed of off-site by ESV Company.

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☑ Yes ☐ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☑ Yes ☐ No

☑ Yes – Spills Incidents database — Provide DEC ID number(s): 0312324

☑ Yes – Environmental Site Remediation database — Provide DEC ID number(s): 224123

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures:

In 2007, as part of Site closure, ESV removed underground and aboveground tanks, associated equipment, and contaminated soil. All were properly characterized and disposed of off-site. All work was documented in the Site Closure Report dated February 2008 and approved by NYSDEC.

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☑ Yes ☐ No

If yes, provide DEC ID number(s): See below

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

DEC ID Number: 224123, 224323, 224129, S224082, S224122, S224083, 224121, 224192, 224131, 224132, 224182, C224052, S241115, C241203, C241005, S224150

Classification Code respective to above: C, P, 2, A, A, A, P, C, 2, 02, 2, N, A, A, C, A

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? 130 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site:

Fine to coarse Sand	80 %
Silty Sand	10 %
Fill	10 %

d. What is the average depth to the water table on the project site? Average: 25 feet

e. Drainage status of project site soils:
☐ Well Drained: _____% of site
☑ Moderately Well Drained: 100 % of site
☐ Poorly Drained _____% of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____% of site
☐ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☐ Yes ☑ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☐ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☐ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☑ Yes ☐ No
If Yes:

i. Name of aquifer: ID: Kings/Queens Counties (Brooklyn/Queens) Aquifer SSA21; Federal Register ID: 49FR2950

m. Identify the predominant wildlife species that occupy or use the project site:

Squirrels	Birds	Pigeons
Cats	Rats	
Raccoons	Geese	

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No

If Yes:

i. Describe the habitat/community (composition, function, and basis for designation): _____

ii. Source(s) of description or evaluation: _____

iii. Extent of community/habitat:

- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑ No

If Yes:

i. Species and listing (endangered or threatened): _____

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:

i. Species and listing: _____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No

If yes, give a brief description of how the proposed action may affect that use: _____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No

If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No

i. If Yes: acreage(s) on project site? _____

ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No

If Yes:

i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature

ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No

If Yes:

i. CEA name: _____

ii. Basis for designation: _____

iii. Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☑ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ☑ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

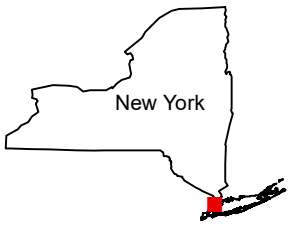
I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name ExxonMobil Oil Corporation - Michael Burghardt Date December 11, 2023

Signature  Title US East Supervisor

PRINT FORM

QUADRANGLE LOCATION



N

2,000 0 2,000'

Title:

SITE LOCATION MAP

EXXONMOBIL
GREENPOINT PETROLEUM REMEDIATION PROJECT
GREENPOINT, BROOKLYN, NEW YORK

Prepared for:

EXXONMOBIL OIL CORPORATION
BROOKLYN, NEW YORK

ROUX

Compiled by: J.C.	Date: 12/04/23	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	2A
Project Mgr: C.L.	Project: 0172.0030Y070	
File: 0172.0030Y5051.2.mxd		

V:\GIS\PROJECTS\0172E\0030E\5051\0172.0030Y5051.2.MXD

Agency Use Only [If applicable]

Project :

Date : 12/11/2023

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "**Yes"** to a numbered question, please complete all the questions that follow in that section.
- If you answer "**No"** to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land

Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1)

☐ NO ☑ YES

If "Yes", answer questions a - j. If "No", move on to Section 2.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	☑	☐
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	☑	☐
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	☑	☐
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	☐	☑
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	☑	☐
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	☑	☐
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	☑	☐
h. Other impacts: Not Applicable		☑	☐

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g) ☐ NO ☐ YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	☐	☐
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	☐	☐
c. Other impacts: _____ _____		☐	☐

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h) ☐ NO ☐ YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	☑	☐
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	☑	☐
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	☑	☐
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	☑	☐
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	☑	☐
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	☑	☐
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	☑	☐
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	☑	☐
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	☑	☐
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	☑	☐
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	☑	☐

l. Other impacts: Not Applicable		☑	☐

4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t) ☐ NO ☑ YES

If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	☑	☐
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	☑	☐
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	☑	☐
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	☑	☐
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	☑	☐
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	☑	☐
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	☑	☐
h. Other impacts: Not Applicable		☑	☐

5. Impact on Flooding

The proposed action may result in development on lands subject to flooding. (See Part 1. E.2) ☑ NO ☐ YES

If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	☐	☐
b. The proposed action may result in development within a 100 year floodplain.	E2j	☐	☐
c. The proposed action may result in development within a 500 year floodplain.	E2k	☐	☐
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	☐	☐
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	☐	☐
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	☐	☐

g. Other impacts: _____ _____		☐	☐

6. Impacts on Air

The proposed action may include a state regulated air emission source. ☐ NO ☑ YES
(See Part 1. D.2.f., D.2.h, D.2.g)
If "Yes", answer questions a - f. If "No", move on to Section 7.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels:			
i. More than 1000 tons/year of carbon dioxide (CO_2)	D2g	☑	☐
ii. More than 3.5 tons/year of nitrous oxide (N_2O)	D2g	☑	☐
iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)	D2g	☑	☐
iv. More than .045 tons/year of sulfur hexafluoride (SF_6)	D2g	☑	☐
v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions	D2g	☑	☐
vi. 43 tons/year or more of methane	D2h	☑	☐
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	☑	☐
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	☑	☐
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	☑	☐
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	☑	☐
f. Other impacts: Not Applicable _____ _____		☑	☐

7. Impact on Plants and Animals

The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) ☑ NO ☐ YES
If "Yes", answer questions a - j. If "No", move on to Section 8.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	☐	☐
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	☐	☐
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	☐	☐
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	☐	☐

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	□	□
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	□	□
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	□	□
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____ _____	E1b	□	□
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	□	□
j. Other impacts: _____ _____		□	□

8. Impact on Agricultural Resources

The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.) ☑ NO ☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 9.

	Relevant Part I Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	□	□
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, Elb	□	□
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	□	□
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	□	□
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	El a, E1b	□	□
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	□	□
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	□	□
h. Other impacts: _____		□	□

9. Impact on Aesthetic Resources

The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.)

☑ NO ☐ YES

If "Yes", answer questions a - g. If "No", go to Section 10.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	☐	☐
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	☐	☐
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	 ☐ ☐	 ☐ ☐
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	 ☐ ☐	 ☐ ☐
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	☐	☐
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile ½ -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	☐	☐
g. Other impacts: _____ _____		☐	☐

10. Impact on Historic and Archeological Resources

The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.)

☑ NO ☐ YES

If "Yes", answer questions a - e. If "No", go to Section 11.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e	☐	☐
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	☐	☐
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	☐	☐

d. Other impacts: _____ _____		□	□
e. If any of the above (a-d) are answered "Moderate to large impact may occur", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	□	□
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	□	□
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	□	□

11. Impact on Open Space and Recreation

The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan.
(See Part 1. C.2.c, E.1.c., E.2.q.)
If "Yes", answer questions a - e. If "No", go to Section 12.

☑ NO ☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	□	□
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	□	□
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	□	□
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	□	□
e. Other impacts: _____ _____		□	□

12. Impact on Critical Environmental Areas

The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d)
If "Yes", answer questions a - c. If "No", go to Section 13.

☑ NO ☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	□	□
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	□	□
c. Other impacts: _____ _____		□	□

13. Impact on Transportation

The proposed action may result in a change to existing transportation systems. ☑ NO ☐ YES
(See Part 1. D.2.j)
If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	☐	☐
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	☐	☐
c. The proposed action will degrade existing transit access.	D2j	☐	☐
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	☐	☐
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	☐	☐
f. Other impacts: _____ _____		☐	☐

14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy. ☑ NO ☐ YES
(See Part 1. D.2.k)
If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	☐	☐
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	☐	☐
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	☐	☐
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	☐	☐
e. Other Impacts: _____ _____			

15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting. ☐ NO ☑ YES
(See Part 1. D.2.m., n., and o.)
If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	☑	☐
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	☑	☐
c. The proposed action may result in routine odors for more than one hour per day.	D2o	☑	☐

d. The proposed action may result in light shining onto adjoining properties.	D2n	☑	☐
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	☑	☐
f. Other impacts: Not Applicable		☑	☐

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) ☑ NO ☐ YES

If "Yes", answer questions a - m. If "No", go to Section 17.

	Relevant Part I Question(s)	No,or small impact may cccur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	□	□
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	□	□
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	□	□
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	□	□
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	□	□
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	□	□
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	□	□
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	□	□
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	□	□
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	□	□
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	□	□
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	□	□
m. Other impacts: _____			

17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans. ☑ NO ☐ YES

(See Part 1. C.1, C.2. and C.3.)

If "Yes", answer questions a - h. If "No", go to Section 18.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	☐	☐
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	☐	☐
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	☐	☐
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	☐	☐
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, Elb	☐	☐
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	☐	☐
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	☐	☐
h. Other: _____ _____		☐	☐

18. Consistency with Community Character

The proposed project is inconsistent with the existing community character. ☑ NO ☐ YES

(See Part 1. C.2, C.3, D.2, E.3)

If "Yes", answer questions a - g. If "No", proceed to Part 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	☐	☐
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	☐	☐
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	☐	☐
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	☐	☐
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	☐	☐
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	☐	☐
g. Other impacts: _____ _____		☐	☐

PRINT FULL FORM

ATTACHMENT 3

PUBLIC PARTICIPATION PLAN

Applicant:

ExxonMobil Oil Corporation

Facility:

ExxonMobil Greenpoint Petroleum Remediation Project (EMGPRP)
38 Varick Street
Brooklyn, New York 11222

NYSDEC Application Number:

2-6101-00107-0026

As Required by:

NYSDEC Commissioner's Policy Guidance CP-29

Submitted to:

New York State Department of Environmental Conservation
4740 21st Street
Long Island City, New York 11101

Prepared by:

Roux Environmental Engineering and Geology, D.P.C.
209 Shafter Street
Islandia, New York 11479

Date:

December 8, 2023

TABLE OF CONTENTS

List of Acronyms

Acronym	Definition
CAMP	Community Air Monitoring Program
CP-29	Commissioner Policy 29, Environmental Justice and Permitting
EMGPRP	ExxonMobil Greenpoint Petroleum Remediation Project
NOCA	Notice of Complete Application
NYSDEC	New York State Department of Environmental Conservation
ORS	Off-Site Free-Product Recovery System
PEJA	Potential Environmental Justice Area
PPP	Public Participation Plan
RCS	Former Brooklyn Terminal Free-Product Recovery and Containment System
SPDES	State Pollutant Discharge Elimination System
SVE	Soil Vapor Extraction

I. INTRODUCTION AND OBJECTIVE

This Public Participation Plan (PPP) has been prepared by Roux Environmental Engineering and Geology, D.P.C. for ExxonMobil Environmental and Property Solutions Company on behalf of ExxonMobil Oil Corporation (hereinafter referred to as "applicant") to fulfill and comply with the requirements of New York State Department of Environmental Conservation **Commissioner Policy 29, Environmental Justice and Permitting (CP-29)** for their proposed consolidation and relocation of two existing groundwater treatment facilities associated with the ExxonMobil Greenpoint Petroleum Remediation Project (EMGPRP), that requires a modification to its New York State Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) permit (SPDES Permit Number NY 0267724) and which has been determined by NYSDEC to potentially impact one or more potential environmental justice areas (PEJA) (See Figure 1).

This PPP has been developed in accordance with the procedures established in CP-29 Section V.D and it aims to help ensure meaningful and effective public participation throughout the NYSDEC environmental permit review process. Public participation in the NYSDEC environmental permit review process means a program of activities that provides opportunities for stakeholders to be informed about and involved during the review of a proposed action.

The objective of this PPP is to outline and describe the program of activities that the applicant will implement to actively seek and enhance public participation during the application review process.

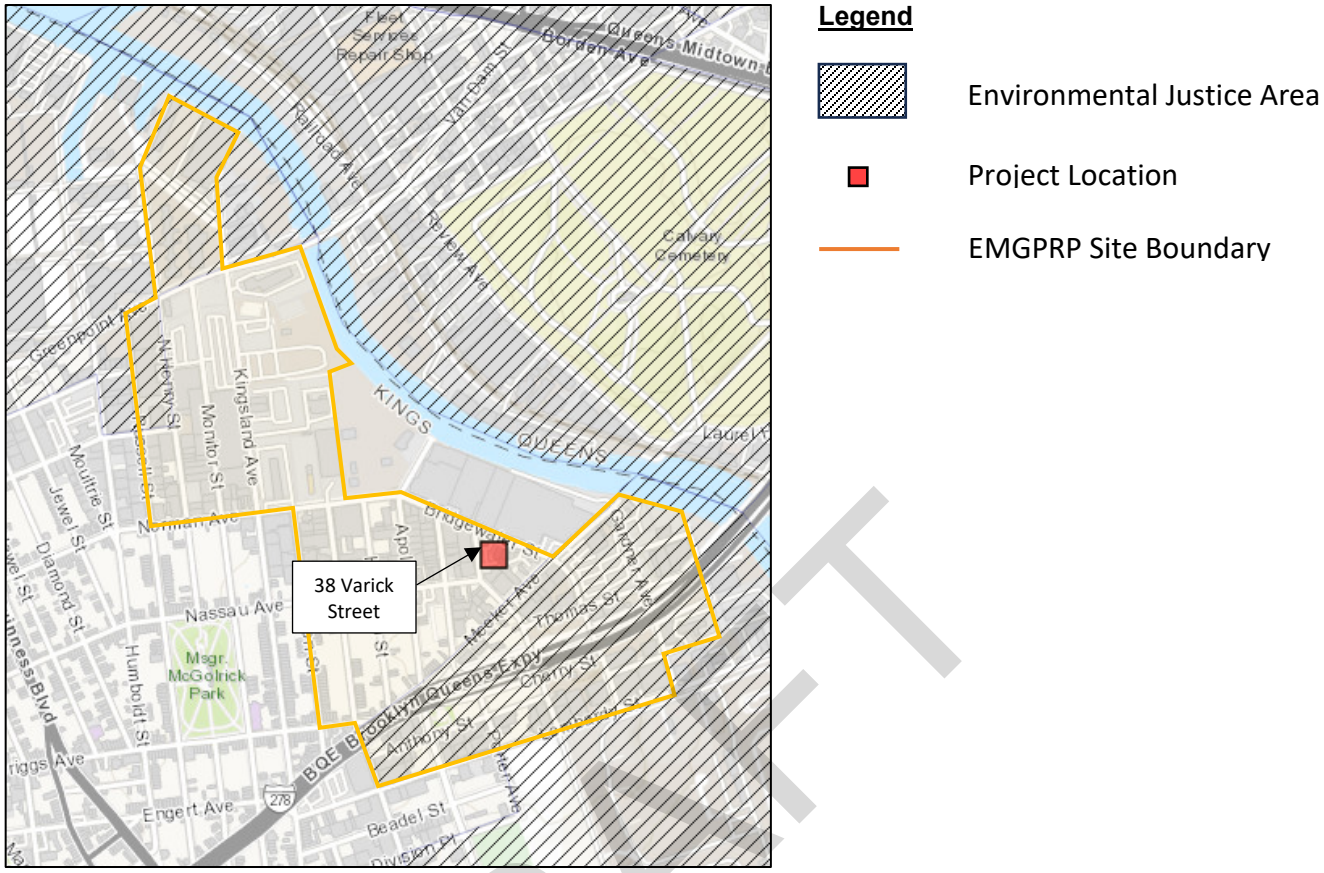


Figure 1. Project Location and Potential Environmental Justice Area(s) (source: NYSDEC 2020 ArcGIS)

II. PROJECT DESCRIPTION AND PROPOSED ACTION

Project Overview

The applicant proposes to inform and involve the public of:

1. The consolidation and relocation of two existing groundwater treatment facilities of the EMGPRP into a single groundwater treatment facility to be located at 38 Varick Street, Brooklyn, New York. There will be no change in the overall discharge quantity to Newtown Creek.
2. Discontinuing use of Outfalls 01A and 001 for remedial discharge and consolidating all effluent discharge through Outfall 002.

To implement the proposed project, the applicant has submitted an application to the New York State Department of Environmental Conservation (NYSDEC) for a modified industrial SPDES permit to allow for the construction and operation of a consolidated groundwater treatment facility at 38 Varick Street, Brooklyn, New York 11222 and discharge of the treated water through the existing Outfall 002 at the northern terminus of Meeker Avenue.

Nature of Proposed Project/Action and Purpose

The EMGPRP is located in the northwest section of Greenpoint, in the northernmost section of the Borough of Brooklyn, New York City, New York. The EMGPRP includes the environmental investigation, monitoring, and remediation activities that ExxonMobil is performing within the project area (Site), shown on Figures 1 and 2, as defined in the

Consent Decree between the State of New York and ExxonMobil, filed on March 1, 2011, in the United States District Court, Eastern District of New York (Consent Decree) and under the direction of the NYSDEC.

As part of the EMGPRP, ExxonMobil operates three remediation systems: (1) the Former Brooklyn Terminal Free-Product Recovery and Containment System (RCS) facility located at 400 Kingsland Avenue; (2) the Off-Site Free-Product Recovery System (ORS) facility located at 5 Bridgewater Street; and (3) the Soil Vapor Extraction (SVE) facility located at 38 Varick Street. The RCS and ORS each include a groundwater treatment facility which currently discharge through either Outfall 001 (via Outfall 01A) or Outfall 002 under the existing SPDES permit.

The proposed action involves the relocation and consolidation of the two existing groundwater treatment systems (RCS and ORS) into a single treatment facility designed to handle the combined flow from all existing recovery wells while maintaining compliance with the approved SPDES discharge limits. The facility will also manage other, minor periodic process streams generated during ongoing Site remediation activities as detailed in the existing SPDES discharge permit.

The proposed action includes construction of a new groundwater treatment facility, integrated with the existing SVE system located within the property limits of 38 Varick Street. Once complete, the system will no longer discharge treated groundwater through Outfall 01A or Outfall 001, but instead convey the combined process stream to be discharged exclusively through the existing Outfall 002 located at the northern terminus of Meeker Avenue. The approximate locations of the existing RCS, ORS, and SVE facilities, as well as the existing associated outfalls are shown on Figure 2.

The objectives of relocating and consolidating the existing two EMGPRP groundwater treatment facilities into one facility include:

1. Optimization of the long-term operational efficiency of the groundwater treatment system; and
2. Reducing operational footprint in the Greenpoint community.

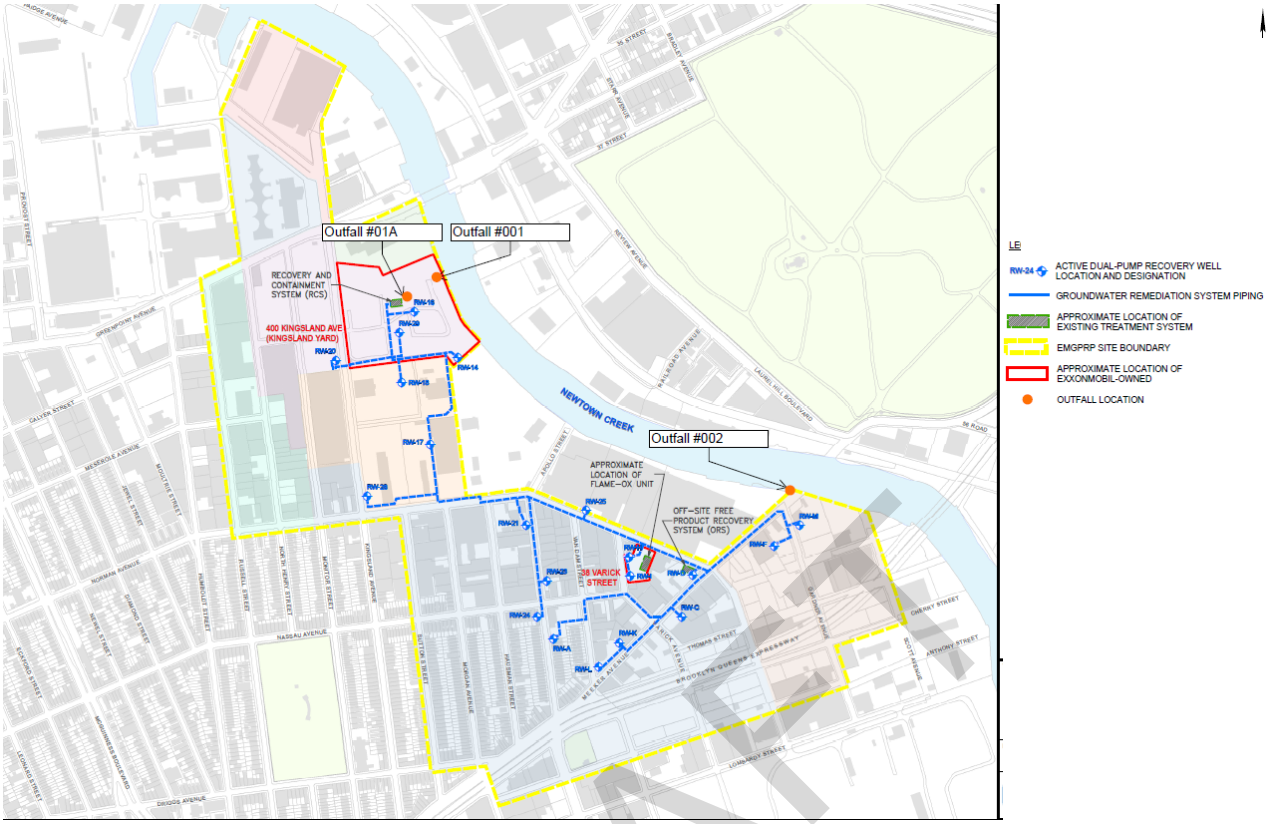


Figure 2. Locations of Existing and Proposed Groundwater Treatment and Discharge Facility

Potential Impacts

The potential impacts surrounding the construction of a new groundwater treatment facility at 38 Varick Street are expected to be typical of a new building construction. The existing RCS and ORS treatment buildings will be decommissioned following construction and start-up of the new facility. The new system will support long-term operations and remediation activities in accordance with the Site's Consent Decree. For clarity, the potential impacts have been categorized based on construction impacts (construction of new facility) and operational impacts (long-term operation of the new treatment facility):

The construction-based impacts are expected to be typical of new building construction and are expected to conclude within 1.5 years of groundbreaking. Impacts are expected to include:

- Potential intermittent periods of increased traffic due to equipment and material deliveries, as well as disposal of excavated soils and construction debris.
- Potential nuisance, dust, odors and noise produced by intermittent heavy construction equipment use during demolition and construction activities.
    - A Community Air Monitoring Program (CAMP) will be developed for all phases of the new facility's construction. The program will outline monitoring, response, and mitigation procedures to be implemented during construction. This program is intended to reduce the likelihood of potential nuisance dust, odor or noise events occurring that would potentially affect the public.

The long-term operational impacts potentially include:

- Operations and Maintenance activities (once operational) will produce background mechanical noise. However, as all equipment will be installed within the walls of the new facility, the potential for nuisance noise to exist outside of the facility is minimal.
- Periodic material deliveries and operational waste removal will result in an intermittent increase in activity at the 38 Varick Street property.

III. STAKEHOLDER IDENTIFICATION & CONTACT LIST

A contact list consisting of the names, addresses, phone numbers, or email addresses of stakeholders to the proposed action is provided in Appendix A. The contact list includes individuals and organizations with a direct stake in the proposed action as well as individuals and organizations that have expressed interest in the EMGPRP.

To develop a draft contact list, the applicant reached out to and consulted the following local resources to help identify stakeholders and develop an initial contact list. Additional stakeholders were added to the draft contact list based on those who had attended previous NYSDEC meetings or who had previously expressed an interest in the EMGPRP.

The current contact list has been developed in consultation with NYSDEC by identifying stakeholders from the following categories: local government and elected officials; business owners, residents, and occupants; local civic, community, environmental and religious organizations; local news media; administrator/operator of any school or day care that live, work and/or represent a neighborhood or community within the project area.

The applicant will utilize this contact list to communicate and disseminate information about the proposed project/action and permit application review process to the affected community and stakeholders. At minimum, this includes distribution of the written information and outreach materials described in Section V to inform the community about upcoming public meetings and opportunities for public participation.

The contact list will be reviewed periodically and updated as appropriate throughout the permit application review process. The applicant will update the contact list with any new stakeholders identified during the public meeting or execution of other PPP components. In addition, individuals and organizations will be added to the contact list upon request. Such requests should be submitted to the project liaison identified in Section IV. Other additions to the contact list may be made at the discretion of the applicant or, at the request of the NYSDEC project manager, in consultation with other NYSDEC staff, as appropriate.

IV. PROJECT LIAISON

A representative from the project team will be available during business hours at:

- Kevin M. Thompson
  Public & Government Affairs Advisor
  Environmental & Property Solutions (E&PS)

(718) 404-0675
kevin.m.thompson@exxonmobil.com
38 Varick Street, Brooklyn, New York 11222

Impacted residents and interested stakeholders can contact the project liaison listed above to provide input to the project team, discuss any issues or concerns and/or to ask questions or request information. The project liaison shall respond in a timely manner and in the manner appropriate to question or information request received. The project liaison will be responsible for tracking and documenting public input, inquires, questions, and information requests received, along with responses provided.

V. PUBLIC OUTREACH ACTIVITIES

The applicant will utilize a range of engagement strategies and conduct various public outreach activities to facilitate participation, involvement, and direct communication with the affected community during the permit application review process. The applicant will implement the public outreach activities outlined below upon finalization and approval of this PPP by NYSDEC.

In compliance with the requirements of CP-29, the applicant will hold public information meeting(s) to keep the public informed about the proposed action and the environmental permit review process. At minimum, the applicant will prepare, distribute and post written information and materials, including a meeting notice and fact sheet, to encourage dialogue and solicit input from interested stakeholders during the permit application review process. All public outreach materials and information will be prepared and presented in an easy-to-read, understandable format, using plain language free of legal terminology, and geared towards a non-technical audience.

The public meeting notice and fact sheet will be made available and disseminated in English, Spanish and Polish. In addition, the public can contact the project liaison regarding the availability of language assistance and to request that the notice and fact sheet are translated into another language for comprehension by non-English speaking or limited proficiency stakeholders.

Public Meeting(s)

At the discretion of NYSDEC and, depending on the scale and nature of a project, one or more virtual public meeting(s) must be conducted to satisfy the intent of CP-29.

A meeting is typically required near the end of the permit application review process to inform the public about: the status of, or, if applicable, the availability of, final application materials and draft permits for review; the pending NYSDEC public comment period, and deadline to submit written comments to NYSDEC, if established; and eventual final decision. Meetings may also be held earlier, either pursuant to this plan or possibly even earlier during the initial design phase. If meetings were held prior to submission of this PPP, a summary of them should be included as an appendix.

Public Meeting: At or Near Completeness

Applicant will facilitate a virtual public meeting or meetings on [INSERT DATE(s)] at [INSERT TIME(s)] to:

- Inform the public about the proposed project/action and permit application review status.

- Provide the opportunity for stakeholders to ask questions and express concerns about the project and identify how to obtain information or answers to questions after the meeting has concluded.
- Inform attendees how they may submit written comments on the permit application to the NYSDEC during the public comment period and, if available, identify any applicable deadlines.

Necessary Meeting Discussion Points and Requirements

All meetings will be facilitated by the applicant and/or representatives from their project team (project personnel) via [INSERT ONLINE TELECONFERENCE PLATFORM OF CHOICE]. During the meeting, the applicant and/or representatives from their project team will present a brief overview of the project, including any relevant background information, details on the permitting action, scope of work, schedule, and community impacts. The second part of the meeting will include a question-and answer-portion where the floor will be open for attendees to ask questions, make remarks, and/or express concerns. In addition, the following discussion points will be addressed:

- Provide an update on the permit application review process and identify outstanding application requirements and future milestones in the application review process.
- Make it clear that the meeting is being held prior to NYSDEC's permitting decision for the project/action.
- Identify the location of the online document repository and provide directions on how attendees may obtain and review materials relevant to the application, documents related to the meeting and other public participation plan components.
- Identify and provide contact information for the project liaison and announce procedures for how attendees may obtain answers to questions after the meeting has concluded and interested stakeholders can submit questions, express concerns, or request additional information by telephone, email, and in writing.
- Announce any future outreach, opportunities for public participation, and /or required follow-up with attendees including, but not limited to: additional meetings and future mailings, including, but not limited to the Notice of Complete Application.

Attendance will be recorded during the virtual meeting by virtual sign-in sheet. The applicant will track the number of attendees for all meetings held during implementation of this PPP and, where feasible and applicable, identify any affiliation of participants and interests represented at the meeting. In addition, the applicant will be responsible for documenting meeting notes or minutes, along with a record of comments and questions raised in the meeting and respective responses and answers provided. Attendees not identified on the contact list will have the option to be added in the event of future meetings or information sharing.

Virtual Public Meeting Notice Preparation and Distribution

Information regarding the details of the virtual public meeting(s) and how to participate via computer and/or telephone is contained in the reader-friendly meeting notice(s) shown in Appendix B. The notice has been prepared in English and will be translated into Spanish

and Polish by a certified translator. Through this notice, the public will be invited and encouraged to attend the public virtual meeting scheduled on [INSERT DATE AND TIME].

Once the PPP has been approved by NYSDEC the public meeting notice will be posted and available in the online document repository described in Section VI of this document. At least two weeks in advance of the public virtual meeting, the notice will be published in the Greenpoint Star, Queens Chronicle, Nowy Dziennik, and El Correo de Queens which is a weekly newspaper printed, published, and circulated weekly in the Greenpoint area. In addition, the public meeting notice will be emailed, mailed and/or hand delivered (door-to-door) to the stakeholders identified in the contact list in Appendix A at least two weeks prior to the public virtual meeting.

Fact Sheet Preparation and Distribution

Factual information on the proposed project/action, including an overview, purpose statement, and potential impacts, is outlined in the reader-friendly fact sheet shown in Appendix C. In addition, the fact sheet outlines how interested stakeholders can: participate in the permit application review process; access the online document repository to review relevant application materials prior to the public meeting; and contact the project team to obtain additional information. The fact sheet has been prepared in English and will be translated into Spanish and Polish by a certified translator.

Once the PPP has been approved by NYSDEC the fact sheet will be posted and available in the online document repository described in Section VI of this document. No later than 2 weeks prior to the public meeting, the applicant will distribute the fact sheet to provide stakeholders with relevant background on the proposed project/action and facilitate meaningful participation during the meeting. The fact sheet may be distributed together with the public meeting notice via email, mail and/or hand delivery (door-to-door).

The fact sheet(s) will also be posted within the vicinity of the project site and visible to the public. For example, they may be posted on some streetlight lampposts or bulletin boards located in the lobby of residential complex buildings or public facilities such as libraries, schools, or community centers within the project site.

Distribution of Notice of Complete Application

Once NYSDEC determines the application(s) for the proposed action/project is complete and provides the Notice of Complete Application (NOCA) to the applicant, the applicant will distribute the NOCA and draft permit, if applicable, to the meeting attendees and any identified interested parties, to provide notification regarding the start of the NYSDEC public comment period and to announce the deadline for submission of written comments to NYSDEC. If the NOCA is available at the time of the meeting, the applicant will distribute the NOCA at the public meeting. If the NOCA is not available at the time of the meeting, the applicant will provide explicit instructions on how to access the online repository and inform the attendees that, once available, the NOCA will be posted to the online document repository and will be distributed to attendees via email or mail as soon as possible, but no later than the date that the NOCA is published by the applicant in the print edition of a paid local newspaper that is circulated at least weekly and available in the municipality in which the project is located.

Additional Outreach and Materials

Citizen Meetings

ExxonMobil's Project Liaison periodically meets with residents and community groups to provide updates and address community questions about the EMGPRP and its associated SPDES permit application process. These groups may include:

- The Newtown Creek Alliance,
- Community Board #1,
- North Brooklyn Chamber,
- North Brooklyn Neighbors,
- Evergreen Exchange, and
- The Long Island City Partnership.

These meetings are less formal than large public meetings and allow for more personalized interaction. These sessions help to maintain contact with the community and provide continual opportunities for public input. Interested parties may contact the ExxonMobil Project Liaison indicated in Section IV above to inquire about scheduling a meeting.

VI. DOCUMENT REPOSITORY

An online document repository has been established for the community and interested stakeholders to access and review information about the project. The online repository available at [INSERT LINK] will provide information and documents relating to the project and permit application.

The repository will be updated throughout the application process with project-related information and written materials (i.e., application forms and supporting materials, draft permit, fact sheet, statement of basis (where applicable), the Notice of Complete Application provided by the NYSDEC, etc.).

VII. SUBMISSIONS

Final Summary Report and Written Certification

Upon completion of the enhanced public participation plan, the applicant will submit written certification to NYSDEC to certify that it has fully executed and complied with the approved PPP. The certification shall be signed by the applicant, or the applicant's agent, and submitted to NYSDEC prior to a final decision on the application.

As part of the certification, the applicant shall submit a final summary report documenting the implementation of this PPP. The report will summarize the activities that occurred in accordance with the PPP and will identify any substantive concerns raised by stakeholders during the public meeting, or, at any time throughout the permitting process and detail the applicant's response(s) to any such concerns or questions. The applicant will include, or append, any documentation that supports the final summary report, such as: the meeting sign-in sheet(s), record of attendees/participants, meeting presentation, notes or minutes,

summary of questions and answers, and copy of newspaper notice or other proof of publication. In addition, the report will identify any changes or modifications to the proposed project that were made or considered by the applicant to address or reduce concerns surrounding the permit application.

The final summary report and written certification will become part of the application record and will be posted to the online document repository so that it is readily available to the public.

APPENDIX A
Contact List

Appendix A. Site Contact List

LAST NAME	FIRST NAME	AFFILIATION	ADDRESS					TITLE	PHONE		EMAIL
			Steet	Apt. / Floor	City	State	Zip		Main	Cell	
Environmental Companies											
Malinowski	Stephen T.	C.A. Rich Environmental Specialists	17 Dupont Street		Plainview	NY	11803				
Fisher	Brad	Delta Environmental Consultants	84 Business Park Dr.	Suite 107	Armonk	NY	10504				
Coogan	Jerry	Miller Environmental	538 Edwards Avenue		Claverton	NY	11933		(631) 369-4900		jcoogan@millerenv.com
Auttor	Tom	Alpha Concepts	132 Landing Road		Landing	NJ	07850		(973) 770-3046		
Konas	Dale	EnviroTrac	80 B Air Park Drive		Ronkonkoma	NY	11779		(631) 471-1500		dalek@envirotrac.com
Kennedy	Justin	Roux	209 Shafter Street		Islandia	NY	11749		(631) 232-2600		
Abelin	Brooks	SAIC	6310 Allentown Blvd.		Harrisburg	PA	17112-3377		(717) 901-8803		
Linn	Scott	SAIC	6310 Allentown Blvd.		Harrisburg	PA	17112-3377		(717) 901-8100		
Banaszak	Konrad	Keramida Environmental	330 North College Avenue		Indianapolis	IN	46202				
Cooperman	Jonathan K.	Kelley Drye & Warren LLP	101 Park Avenue		New York	NY	10178				
Perlmutter	Adam	Law Offices of Adam D. Perlmutter	120 Schermerhorn Street		Brooklyn	NY	11201-5108		(212) 679-1990		
Balis	Keith	Lucas & Balis	122 Nassau Ave		Brooklyn	NY	11222				
Carpenter	Angela	USEPA	290 Broadway		New York	NY	10007				
Loney	Natalie	USEPA	290 Broadway		New York	NY	10007		(212) 637-3639		
Kwan	Caroline	USEPA	290 Broadway		New York	NY	10007				
Merchant	Zeita	United States Coast Guard Activities New York	212 Coast Guard Drive		Staten Island	NY	10305	Captain			
Hettrick	Dawn	NYSDOH Flanigan Square	547 River Street		Troy	NY	12180				
Laccetti	Geoff	NYSDOH Flanigan Square	547 River Street		Troy	NY	12180				
McDonald	Gerry	NYSDOH Flanigan Square	547 River Street		Troy	NY	12180				
Currey	Douglas	New York State DOT Hunters Point Plaza	47-40 21st Street		Long Island City	NY	11101	Regional Director			
Salerno	Phillip	New York State DOT Hunters Point Plaza	47-40 21st Street		Long Island City	NY	11101				
D'Andrea	Chris	NYC Dept. of Health and Mental Hygiene	253 Broadway	Room 402 CN- 34 C	New York	NY	10007-2333	Environmental and Occupational Disease Epidemiology			
Cone	Jim	NYC Dept. of Health and Mental Hygiene	253 Broadway	Room 402 CN- 34 C	New York	NY	10007-2333	Environmental and Occupational Disease Epidemiology			
Ramaglia	Joseph	Dept. of Environmental Protection	96-05 Horace Harding Expressway	4th Floor (low rise)	Corona	NY	11368	P.E.			
Sapienza	Vincent	NYC Dept. of Environmental Protection	59-17 Junction Boulevard	10th Floor	Flushing	NY	11373	Chief Operating Officer			
Kronley	Neal	New York City Council Infrastructure Division	250 Broadway	14th Floor	New York	NY	10007				
Meltzer	Hilary	New York City Law Department Environmental Law Division	100 Church Street		New York	NY	10007	Division Chief			
Hodgens	John	Fire Department	250 Livingston Street		Brooklyn	NY	11201-5884	Chief			
Reynoso	Antonio	Brooklyn Borough President Office Borough Hall	209 Joralemon Street		Brooklyn	NY	11201	Honorable			
Restler	Lincoln	NYC Council Member, 33rd District Lincoln Restler	410 Atlantic Avenue		Brooklyn	NY	11217	Honorable			
Gonzalez	Kristen	Senator District 59 Kristen Gonzalez	198 State St	Room 817	Albany	NY	12247	Honorable			
Gallagher	Emily	Assemblymember, 50th District Emily Gallagher	685a Manhattan Avenue		Brooklyn	NY	11222	Honorable			
Kirsten	Gillibrand	U.S Senate	780 Third Avenue	Suite 2601	New York	NY	10017	Honorable			
Schumer	Charles	U.S Senate	757 Third Avenue	Room 17-02	New York	NY	10017	Honorable			
Velazquez	Nydia	U.S. Congress	266 Broadway	Suite 201	Brooklyn	NY	11211-2205	Honorable			
Elkins	Willis	Newtown Creek Alliance	520 Kingsland Avenue		Brooklyn	NY	11222				welkins@newtowncreekalliance.org
Holowacz	Christine	Resident	173 Meserole Avenue		Brooklyn	NY	11222				krysia915@hotmail.com
Andrulevich	Maryann	Noble Street Block Assn.	105 Noble Street	Apt 1	Brooklyn	NY	11220			(917) 647-4595	
Brodsky	Elaine	North Brooklyn Chamber	PO Box 220025								ejb688@gmail.com
Michaleski	Edmund	Oak Street Block Assn.	113 Oak Street		Brooklyn	NY	11222				
Peterson	Janice	Neighborhood Women Williamsburg- Greenpoint	249 Manhattan Avenue		Brooklyn	NY	11211	Executive Director			
Kirby	Felice	North Brooklyn Neighbors	240 Kent Avenue		Brooklyn	NY	11211				
Ruhle	Jennifer	Pace Environmental Litgation Clinic	78 North Broadway		White Plains	NY	10603				
Coplan	Karl	Pace Environmental Litigation Clinic	118 Huron Street	Apt. 2L	Brooklyn	NY	11222		(985) 209-1393		sandrad348@gmail.com
Freud	Edgar	Sierra Club	305 West 72nd Street	Apt. 8B	New York	NY	10023		(212) 877-0394		elfreud@aol.com
		Sierra Club of NY	625 Broadway		New York	NY	10012				
Eagan	Ann	Green Party	39-51 46 Street		Sunnyside	NY	11104				
		Greenpeace Action	96 Spring Street		New York	NY					
Dulong	Michael	Riverkeeper	20 Secor Road		Ossining	NY	10562				
		NYPIRG	9 Murray Street		New York	NY	10007				
Saphire	David	Council on Environment	51 Cambers Street	Suite 228	New York	NY	10007				
Szyr	Jadwiga	Pete McGuinness Seniors Center	715 Leonard Street		Brooklyn	NY	11222	Director			
Sawczuk	Kaya	Polish &Slavic Center	177 Kent Street		Brooklyn	NY	11222	Executive Director			
Jozwiak	J.	Polish & Slavic Center	177 Kent Street		Brooklyn	NY	11222	1st Vice President			
Wola	M.	Polish & Slavic Center	177 Kent Street		Brooklyn	NY	11222	2nd Vice President			
Kaminski	Bozena	Polish & Slavic Center	177 Kent Street		Brooklyn	NY	11222	President			
Loblow	Chester	Polish & Slavic Center	177 Kent Street		Brooklyn	NY	11222	Treasurer			
Majka	Walter	Polish & Slavic Center	177 Kent Street		Brooklyn	NY	11222	Secretary			
Bornik	Tomasz	Polish & Slavic Federal Credit Union	126 Greenpoint Avenue		Brooklyn	NY	11222				
Zawisny	Mark	Polish & Slavic Federal Credit Union	126 Greenpoint Avenue		Brooklyn	NY	11222				
		Kingsland Avenue Block Association	240 Kingsland Avenue		Brooklyn	NY	11222				
		Monitor Street Block Association	200 Monitor Street		Brooklyn	NY	11222				
Kordasz	Dr.Kay	Greenpoint Chapter, Deborah Hospital Foundation	136 Kent Street		Brooklyn	NY		President			
Starky	Eugene	ELITA	166 Russell Street		Brooklyn	NY	11222		(718) 383-6092		
Charter	Kendall	Greenpoint Family YMCA	97 Meserole Avenue		Brooklyn	NY	11222	Executive Director			
		Green Oaks Association	99 Eagle Street		Brooklyn	NY	11222				
		Green Oaks Citizens Club, Inc.	179 Green Street		Brooklyn	NY	11222				
		Greenpoint Civic Council	807 Manhattan Avenue		Brooklyn	NY	11222				
		Greenpoint Lions Club	651 Manhatten Avenue		Brooklyn	NY	11222				
Coleman	Brian	Greenpoint Manufacturing and Design Center	1155 Manhattan Ave.		Brooklyn	NY	11222				
Korchow	Lydia	Greenpoint Property Owners Assn.	116 Milton Street		Brooklyn	NY	11222				
Garnett	Abigail	Greenpoint Public Library	107 Norman Avenue		Brooklyn	NY	11222				
Cohen	Nachum	Guardian Archives	425 Greenpoint Ave		Brooklyn	NY	11222				
McErlean	Robert	H,S,B,A	31 Hausman Street		Brooklyn	NY	11222				
Wright	Anita	HNA	460 Park Avenue South		New York	NY	10016		(212) 532-4175		
Raffaniello	Mary	Human Resources, Culbro Corp.	387 Park Avenue South		New York	NY	10016	Vice President			

Appendix A. Site Contact List

LAST NAME	FIRST NAME	AFFILIATION	ADDRESS					TITLE	PHONE		EMAIL
			Steet	Apt. / Floor	City	State	Zip		Main	Cell	
		Jackson St. Beautification Committee	227 Jackson Street		Brooklyn	NY	11211				
		Knights of Columbus #293	80 Franklin Street		Brooklyn	NY	11222				
		La Cabana Tenants Association	391 Lorimer Street		Brooklyn	NY	11211				
		League of Women Voters	817 Broadway		New York	NY	10003-4760				
Mazur	Richard	N. Brooklyn Development Corp.	894 Manhattan Avenue		Brooklyn	NY	11222				
		National Congress of Neighborhood Women	240 Manhattan Avenue		Brooklyn	NY	11211				
Kupiec	John	Neighborhood Roots	1108 Lorimer Street		Brooklyn	NY	11222		(718) 383-2159		
Hofmann	Laura	GWAPP, Barge Park Pals	127 Dupont Street	5D	Brooklyn	NY	11222				bargeparkpals@webtv.net
		Catholic Daughters St. Anthony Church	862 Manhattan Avenue		Brooklyn	NY	11222				
Porto	Joseph	Chase Manhattan Bank	798 Manhattan Avenue		Brooklyn	NY	11222				
		Chopin Club	40 Franklin Street		Brooklyn	NY	11222				
		Community Civic League	554 Humbolt Street		Brooklyn	NY	11222				
		Polish American Congress	177 Kent Street		Brooklyn	NY	11222				
Mysura	Krystyna	Polish and Slavic Federal Credit Union	126 Greenpoint Avenue		Brooklyn	NY	11222				
McMullen	Christine	Polish National Alliance	155 Noble Street		Brooklyn	NY	11222				
Chruscielewski	A.	Polish National Home	261 Driggs Avenue		Brooklyn	NY	11222				
		Polish Slavic Center 2	176 Java Street		Brooklyn	NY	11222				
		Polonia Technica, Inc.	208 East 30th Street		New York	NY	10016				
Pajak	Michael	Polstar Publishing Corp.	134 Greenpoint Avenue		Brooklyn	NY	11222				
		Queens Planning Office	120-55 Queens Blvd.	Room 201	Kew Gardens	NY	11424				
Nadrowski	Leon	Republican Club	107 Java Street		Brooklyn	NY	11222				
		Republican Club	211 Driggs Avenue		Brooklyn	NY	11222				
		School Settlement Association Inc.	120 Jackson Street		Brooklyn	NY	11211				
		Smolenski Club	145 Java Street		Brooklyn	NY	11222				
		Sons of Italy	379 Graham Avenue	Lodge No. 144	Brooklyn	NY	11222				
		Southside Political Action Committee	308 Bedford Avenue		Brooklyn	NY	11211				
Tarantino	Tillie	Swinging Sixties Senior Center - Director	211 Ainslie Street		Brooklyn	NY	11222				
		The Episcopal Church Of the Ascension	129 Kent Street		Brooklyn	NY	11222				
		North Brooklyn Development Corp.	148-150 Huron Street		Brooklyn	NY	11222				
		WABBA	398 Wythe Avenue		Brooklyn	NY	11222				
Swanston	Samara	Watchperson Project	113 Berry Street		Brooklyn	NY	11211				fotlah@gmail.com
		West Maspeth Local Development Corp.	57-20 49th Street		Maspeth	NY	11378				
Bastian	Gordan	West Queens Greens	23-55 31st Street		Astoria	NY	11105				
Garcia	Alice	Parent Support Officer	215 Hayward Street		Brooklyn	NY	11206				
		People's Firehouse, Inc	113 Berry Street		Brooklyn	NY	11211				
Polayes	Madeline	Five Boro Alliance	11 Riverside Drive	4NE	New York	NY	10023				
		St. Nicholas Neighborhood Preservation Corporation	11-29 Catherine Street		Brooklyn	NY	11211				
Czok	Rev. Robert	St. Anthony/ St. Alphonsus	862 Manhattan Avenue		Brooklyn	NY	11222				
		St. Cecilias Church	84 Herbert Street		Brooklyn	NY	11222				
		St. Cecilias Senior Citizens	84 Herbert Street		Brooklyn	NY	11222				
		St. Cyril & St. Methodius Church	150 Eagle Street		Brooklyn	NY	11222				
		St. Elias Church	145 Kent Street		Brooklyn	NY	11222				
		St. Francis De Paola Church	219 Conselyea Street		Brooklyn	NY	11222				
Anderson	Rev. Daniel	St. John's Lutheran Church	155 Milton Street		Brooklyn	NY	11222				
		St. Stanislaus Kostka Church	607 Humboldt Street		Brooklyn	NY	11222				
		St. Stans American Legion Post	100 McGuiness Boulevard		Brooklyn	NY	11222				
Cassada		Our Lady of Mt. Carmel Church	275 North 8th Street		Brooklyn	NY	11211				
Kochupurackal	Rev. Sebastian	Holy Family Rectory	21 Nassau Avenue		Brooklyn	NY	11222				
		Greenpoint Reformed Church	136 Milton Street		Brooklyn	NY	11222				
Merz	John	Church of Ascension	127 Kent Street		Brooklyn	NY	11222				
Diaz	Rev. Miquel	Inglesia Pentecostal El Tabor	256 Franklin Street		Brooklyn	NY	11222				
O'Toole	Msgr. Fursey	Resident	84 Herbert Street		Brooklyn	NY	11222				
Weber	Rabbi Joseph	Resident	182 Rutledge Street	Apt. 1	Brooklyn	NY	11211				
Niederman	Rabbi David	Resident	94 Ross Street	Apt. 4-E	Brooklyn	NY	11211				
Counihan	Elizabeth	Park Tower Realty	499 Park Avenue		New York	NY	10022				
		Asbestolith Corp.	257 Kent Street		Brooklyn	NY	11222				
Tapper	John	The Garden	921 Manhattan Avenue		Brooklyn	NY	11222				
Witkowski	Kelly	The Pit Stop Bar	152 Meserole Avenue		Brooklyn	NY	11222				
Donadio	Olga	UNO	137 Engert Avenue	1L	Brooklyn	NY	11222		(718) 782-3698		
Ferretti	Tom	Resident	30-27 Greenpoint Avenue		Long Island City	NY	11101		(718) 786-6031		
Swidler	Barry	Long Island Carpet Cleaners	301 Norman Avenue		Brooklyn	NY	11222				
Geneva	Salvatore J.	Peerless Importers	16 Bridgewater Street		Brooklyn	NY	11222				
Cohen	Barry	Con Edison	31-01 20th Avenue	Bldg 136	Long Island City	NY	11105		(718) 204-4252		cohenba@coned.com
Pullo	Paul J.	United Metro Energy Corp.	500 Kingsland Avenue		Brooklyn	NY	11222	President			
		Nay Smelting Refinery	269 Freeman Street		Brooklyn	NY	11222				
Tomaszewski	Marek	Nowy Dziennik	333 West 38th Street		New York	NY	10018				
Sanchez	Walter	Greenpoint Star	69-60 Grand Avenue		Maspeth	NY	11378			(347) 453-4103	pguie@queensledger.com
Hasty	Dozier	Greenpoint Gazette/ Brooklyn Daily Eagle	16 Court Street	Suite 1208	Brooklyn	NY	11241	Editor			
Chako	Sussy	Resident	12 Orient Avenue		Brooklyn	NY	11211				
Sidorowicz	Laura	Resident	1 Education Drive		Garden City	NY	11530				
Burkiewicz	Theresa	Resident	94 Monitor Street		Brooklyn	NY	11222		(718) 383-7865		
Burkiewicz	Alfred	Resident	94 Monitor Street		Brooklyn	NY	11222		(718) 383-7865		
Sledzinski	A.	Resident	32 Hausman Street		Brooklyn	NY	11222		(718) 782-2756		
Sokolow	Josh	Resident	99 Paidge Ave		Brooklyn	NY	11222				
Aaman	Ben	Resident	222 Kingsland Avenue		Brooklyn	NY	11222				
Abate	Vincent V.	Resident	321 Manhattan Avenue		Brooklyn	NY	11211				

Appendix A. Site Contact List

LAST NAME	FIRST NAME	AFFILIATION	ADDRESS					TITLE	PHONE		EMAIL
			Steet	Apt. / Floor	City	State	Zip		Main	Cell	
Adams	Steve	Resident	106 Milton Street		Brooklyn	NY	11222				
Argento	Tony	Resident	203 Meserole Avenue		Brooklyn	NY	11222				
Berkaner	Mindy	Resident	754 Manhattan Avenue	#2	Brooklyn	NY	11222				
Bindas	Marie	Resident	1018 Lorimer Street		Brooklyn	NY	11222				
Biuso	Emily	Resident	141 Engert Avenue		Brooklyn	NY	11222				emilybiuso@gmail.com
Blenderman	Ron	Resident	43 Apollo Street		Brooklyn	NY	11222		(917) 991-6508		
Bornstein	Noa	Resident	99 Commercial Street		Brooklyn	NY	11222				noabornstein@gmail.com
Borys	Mark	Resident	211 Monitor Street		Brooklyn	NY	11222				
Boyer	Aliza	Resident	106 Clay Street		Brooklyn	NY	11222				Baliza_@hotmail.com
Boyle	Marsilia	Resident	140 Diamond Street		Brooklyn	NY	11222				
Brady	Debbie	Resident	33 Hausman Street		Brooklyn	NY	11222		(718) 389-4982		
Browning	Karen	Resident	141 Guernsey Street	#2C	Brooklyn	NY	11222				
Burkiewicz	Alfred	Resident	94 Monitor Street		Brooklyn	NY	11222				
Capoblanco	Paul J.	Resident	133 Kingsland Avenue		Brooklyn	NY	11222				paulcap@aol.com
Carbone	Frank	Resident	8 Diamond Street		Brooklyn	NY	11222				
Cardillo	Christopher	Resident	24 Apollo Street		Brooklyn	NY	11222			(917) 841-8679	
Cardillo	Jonah	Resident	24 Apollo Street		Brooklyn	NY	11222			(917) 843-8549	jgc271@nyu.edu
Carreiras	Paul	Resident	3 Orient Avenue		Brooklyn	NY	11211				
Chabrowski	Sophie	Resident	120 Norman Avenue	Apt. 2	Brooklyn	NY	11222				
Chambers	Bill & Marie	Resident	65 Meserole Avenue		Brooklyn	NY	11222				
Chena	Lydia	Resident	35 Wendover Road		Flushing	NY	11375				
Chesnicra	Michele	Resident	22 Apollo Street		Brooklyn	NY	11222		(718) 388-5471		
Cianciotta	Theresa	Resident	231 Withers Street		Brooklyn	NY	11211				
Curcio	Joe	Resident	62 Norman Avenue		Brooklyn	NY	11222				
Czaplinski	John	Resident	99 Noble Street		Brooklyn	NY	11222				
Danford	Beatrice	Resident	128A Noble Street		Brooklyn	NY	11222				
Dauerin	Marion	Resident	60 Diamond Street		Brooklyn	NY	11222		(718) 389-8194		
Deignan	Michael	Resident	227 Monitor Street		Brooklyn	NY	11222				
Dempsey	William	Resident	588 Morgan Avenue		Brooklyn	NY	11222		(718) 383-7489		
Dereszewski	John	Resident	9945 67th Road	Apt 306	Forest Hills	NY	11375				
Dickinson	Walter	Resident	PO Box 41		Arkport	NY	14807				
Diffley	Thomas	Resident	140 Milton Street		Brooklyn	NY	11222				
Dziegielewski	Herman & Chris	Resident	935 Lorimer Street		Brooklyn	NY	11222				
Ebinger	Josephine	Resident	177 Meserole Ave		Brooklyn	NY	11222				
Falcon	Juan	Resident	214 Eagle Street		Brooklyn	NY	11222				
Ferris	Patricia	Resident	655 Humboldt Street		Brooklyn	NY	11222				
Figueroa	Radame	Resident	110 Humboldt Street	Apt. 3C	Brooklyn	NY	11206				
Folek	Virginia	Resident	227 Calyer Street		Brooklyn	NY	11222				
Framovitz	Israel	Resident	37 Taylor Street		Brooklyn	NY	11211				
Galasso	Nancy	Resident	79 Wheatley Rd		Old Westbury	NY	11568				
Ghigliezi	Carol	Resident	586 Leonard Street		Brooklyn	NY	11222				
Gillis	Regina	Resident	66 Diamond Street	5R	Brooklyn	NY	11222			(917) 586-2741	
Gormley	Robert	Resident	547 Ovington Ave	Apt#16B	Brooklyn	NY	11209				
Gottlieb	Mary	Resident	785 Meeker Avenue		Brooklyn	NY	11222				
Grasser	Carrie	Resident	1090 Manhattan Avenue	2F	Brooklyn	NY	11222				cgrasser@yahoo.com
Guidice	Thomas	Resident	115 Kingsland Avenue		Brooklyn	NY	11222				
Hamilton	E.	Resident	434 55th Street		Brooklyn	NY	11211				
Hofmann	Michael	Resident	127 Dupont Street		Brooklyn	NY	11222				
Hofmann	David	Resident	81 Harrison Avenue		Brooklyn	NY	11206				
Holder	Robin	Resident	121 Greenpoint Avenue		Brooklyn	NY	11222				
Holstein	Martha	Resident	335 Adams Street	#2700	Brooklyn	NY	11201				
Hynes	Elizabeth	Resident	434 South 5th Street		Brooklyn	NY	11211				
Jozefowicz	Stanislawa	Resident	713 Humboldt Street		Brooklyn	NY	11222				
Kaczanowski	John	Resident	189 Greenpoint Avenue		Brooklyn	NY	11222				
Kowalenko	Waldemar	Resident	161 Bedford Avenue		Brooklyn	NY	11222				
Kulpa	Jolanta	Resident	139 Noble Street		Brooklyn	NY	11222				
Laide	Eileen	Resident	101 Becy CT		Brooklyn	NY	11229				
Lajca	Henry	Resident	228 North Henry Street		Brooklyn	NY	11222				
Lauletta	Janice	Resident	1101 Lorimer Street		Brooklyn	NY	11222				
Leanza	Marie	Resident	198 Powers Street	Apt. 1	Brooklyn	NY	11211				
Lee	John	Resident	275 Nassau Avenue		Brooklyn	NY	11222		(718) 388-5293		
Leskin	Helene	Resident	8600 Shore Front Parkway		Rockaway Beach	NY	11693				
Masters	Deborah	Resident	475 Kent Avenue	7th Floor	Brooklyn	NY	11211				
Matechak	Evelyn	Resident	45 Jewel Street		Brooklyn	NY	11222-3507				
Mazur	Richard	Resident	125 Milton Street		Brooklyn	NY	11222				
McConnell	Darragh	Resident	134 Noble Street		Brooklyn	NY	11222				darraghmcconnell@hotmail.com
McErlean	Jo Ann	Resident	31 Hausman Street		Brooklyn	NY	11222		(718) 383-0556		
Mihelic	Barbara	Resident	93 Noble Street		Brooklyn	NY	11222				
Mildred	Tudy	Resident	109 Clifton Place		Brooklyn	NY	11238				
Needelman	Martin	Resident	344 South 3rd Street	Apt 3B	Brooklyn	NY	11211				
Ngui- Calderon	Diana	Resident	128 Noble Street		Brooklyn	NY	11222				
Nowakowski	Joanna	Resident	296 Eckford Street		Brooklyn	NY	11222				
Nyzio	Angelika	Resident	265 Nassau Avenue		Brooklyn	NY	11222		(718) 838-7034	(917) 975-8155	
Olechowski	Chris	Resident	132 Freeman Street		Brooklyn	NY	11222				
Olsen		Resident	92 Newel Street	#2F	Brooklyn	NY	11222				
Ortiz	Frances	Resident	30 Montrose Avenue	Apt. 9-Q	Brooklyn	NY	11206				
Pasher	Inez	Resident	398 Wythe Avenue		Brooklyn	NY	11211				

Appendix A. Site Contact List

LAST NAME	FIRST NAME	AFFILIATION	ADDRESS					TITLE	PHONE		EMAIL
			Steet	Apt. / Floor	City	State	Zip		Main	Cell	
Pearlstein	Abraham	Resident	72 Division Avenue		Brooklyn	NY	11211				
Perlmutter	Adam	Resident	108 Huron Street.		Brooklyn	NY	11222				
Petrullo	Robert	Resident	100 North Henry Street		Brooklyn	NY	11222				
Phyllis	Yampolski	Resident	169 Java Street		Brooklyn	NY	11222				
Pirozzi	Sebastian	Resident	139 Devoe Street		Brooklyn	NY	11211		(718) 981-0529		sasty@aol.com
Pirozzi	Angela	Resident	139 Devoe Street		Brooklyn	NY	11211				
Revy	Mary	Resident	162 Meserole Avenue		Brooklyn	NY	11222				
Rivera	Brunilda	Resident	130 Clymer Street	Apt 9A	Brooklyn	NY	11211				
Rodan	Keith	Resident	83 Freeman Street		Brooklyn	NY	11222				
Rodriguez	Jeff	Resident	266 East 95th Street # 101		New York	NY	10128				
Rohan	Bill & Antoinette	Resident	102 Milton Street		Brooklyn	NY	11222				
Rosario	Israel	Resident	476 Bedford Avenue		Brooklyn	NY	11211				
Rosenthal	Jim	Resident	200 West Houston Street	2B	New York	NY	10014				
Rufin	Christina	Resident	71 Guernsey Street		Brooklyn	NY	11222				
Sacharsky	A	Resident	160 Bayard Street		Brooklyn	NY	11222				
Santiago	Gladys	Resident	50 Manhattan Avenue	Apt.4H	Brooklyn	NY	11206				
Schoenfeld	Lawrence R.	Resident	305 Broadway	Suite 601	New York	NY	10007				
Sekunda	Julia	Resident	209 Huron Street		Brooklyn	NY	11222				
Severino	Donna	Resident	144 Meserole Avenue		Brooklyn	NY	11222				
Shkrutz	Edith J.	Resident	75 Newell Street		Brooklyn	NY	11222				
Simington	Ben	Resident	115 Diamond Street		Brooklyn	NY	11222		(831) 246-1853		
Sitkiewicz	J.	Resident	560 Manhattan Avenue		Brooklyn	NY	11222		(718) 383-3757		
Smallwood	Christine	Resident	227 Nassau Ave		Brooklyn	NY	11222				christine@thenation.com
Smith	Rosemary	Resident	11 Van Dam Street		Brooklyn	NY	11222				
Spellacy	Cliff & Allyson	Resident	141 Nassau Avenue		Brooklyn	NY	11222				
Stone	A.	Resident	231 Monitor Street		Brooklyn	NY	11222		(718) 383-3225		
Stubin	Edward	Resident	122 West Street		Brooklyn	NY	11222				
Stulman	Stephen	Resident	171 West Street		Brooklyn	NY	11222				
Sudano	Doreen	Resident	37 Hausman Street		Brooklyn	NY	11222		(718) 383-0628		
Swick	Dorothy	Resident	54 Hausman Street		Brooklyn	NY	11222		(718) 486-7097		
Szumski	Carol A.	Resident	17 Apollo Street		Brooklyn	NY	11222		(718) 782-4462		
Taliano	Lisa	Resident	275 Nassau Avenue		Brooklyn	NY	11222				lisa@taliano.com
Tarantino	Tillie	Resident	64 Conselyea Street		Brooklyn	NY	11211				
Thompson	Dewey	Resident	131 Calyer Street		Brooklyn	NY	11222				
Tillman	James	Resident	25 Boerum Street	Apt 7-D	Brooklyn	NY	11206				
Tinisk	H.	Resident	15 Apollo Street		Brooklyn	NY	11222		(718) 782-7164		
Torres	Carlos	Resident	759 Meeker Avenue		Brooklyn	NY	11222		(212) 729-7111		
Trakas	George	Resident	P.O Box 395 Canal Station		New York	NY	10013-0395				
Trocchia	Anthony	Resident	426 Graham Avenue		Brooklyn	NY	11211				
Turci	Paul	Resident	132 West Street	Apt 4L	Brooklyn	NY	11222				
Tyborowski	Rowena	Resident	146 Nassau Avenue	3R	Brooklyn	NY	11222		(718) 389-7394		
Uszynski	Dana	Resident	142 A Newell Street		Brooklyn	NY	11222		(718) 353-2533		
Vance	Joseph	Resident	181 North 11th Street		Brooklyn	NY	11211				
Vance	Laura	Resident	281 Nassau Avenue	Apt 1	Brooklyn	NY	11222				
Vespole	Vincent	Resident	25 Van Dam Street		Brooklyn	NY	11222				
Vetell	Barbara	Resident	25 Greenpoint Avenue		Brooklyn	NY	11222				
Washington	Jeanne	Resident	131 Moor Street	Apt 17B	Brooklyn	NY	11206				
Webster	Ronald	Resident	89 Berry Street		Brooklyn	NY	11211				
Weidberg	Stephen	Resident	30 Montrose Avenue	Apt. 7R	Brooklyn	NY	11206				
Wierzbicky	Madeline	Resident	767 Meeker Avenue		Brooklyn	NY	11222		(718) 599-8878		
Wolert	Marzena	Resident	215 Nassau Avenue		Brooklyn	NY	11222			(516) 457-7518	
Wolert-Weese	B.	Resident	215 Nassau Avenue		Brooklyn	NY	11222		(718) 383-7226		
Wolkowitz	Gerald	Resident	105 Apollo Street		Brooklyn	NY	11222		(718) 384-3456		
Wynter	Phyllis	Resident	225 Monitor Street		Brooklyn	NY	11222				

APPENDIX B
Virtual Public Meeting Notice
(English, Spanish, Polish)

YOU ARE INVITED

Virtual Public Meeting
[DATE] at X:00 pm
ExxonMobil Greenpoint Petroleum Remediation Project (EMGPRP)
Industrial SPDES Permit Modification

The ExxonMobil Greenpoint Petroleum Remediation Project (EMGPRP) has submitted an application to the New York State Department of Environmental Conservation (NYSDEC) for a modification of its existing NYS Industrial State Pollutant Discharge Elimination System (SPDES) permit relative to the consolidation and relocation of two existing groundwater treatment systems associated with the EMGPRP to a new groundwater treatment facility to be located at 38 Varick Street, Brooklyn, NY. This action requires a modification to its SPDES permit #NY 0267724. A Public Participation Plan has been developed in accordance with NYSDEC Commissioner Policy 29, Environmental Justice and Permitting (CP-29). The purpose of this meeting is to inform the public about the project and to involve the community during the Industrial SPDES permit modification application review process.

To Join Online
Click the following link:
[INSERT LINK]

To Call-in Using a Phone
Dial in using the following number:
[INSERT NUMBER]
When prompted, enter the Meeting ID:
[INSERT NUMBER]

Agenda:

- Project Overview
- Background
- Scope of work
- Project schedules
- Community Impacts
- Proposed Mitigation Measures
- Questions and Answers

Your Attendance is Important!

Project personnel will be available to answer questions from the community. For additional information on the proposed project:

- Contact: Kevin M. Thompson by phone at: (718) 404-0675, by email at: kevin.m.thompson@exxonmobil.com
- Visit the repository at: [INSERT REPOSITORY LINK]

Contact the project liaison to request reasonable accommodation for a disability or interpreter services in a language other than English, so that you can participate in the call and/or to request a translation of any of the event documents into a language other than English.

APPENDIX C
Fact Sheet
(English, Spanish, Polish)

ExxonMobil Greenpoint Petroleum Remediation Project
SPDES Permit Modification
Fact Sheet

- **Project:** ExxonMobil Greenpoint Petroleum Remediation Project (EMGPRP)
- **Applicant:** ExxonMobil Oil Corporation.
- **Facility:** 38 Varick Street, Brooklyn, New York 11222.
- **NYSDEC Application Number:** SPDES NY 0267724
- **A Public Participation Plan (PPP) has been developed in accordance with NYSDEC Commissioner Policy 29, Environmental Justice and Permitting (CP-29)**

What is the Proposed Project?

The Proposed Project will consolidate two existing groundwater treatment facilities associated with the EMGPRP into a new groundwater treatment facility to be constructed at 38 Varick Street, Brooklyn, NY 11222. To implement the proposed project, ExxonMobil Oil Corporation has submitted an application for a modification to its existing State Pollutant Discharge Elimination System (SPDES) permit to the New York State Department of Environmental Conservation (NYSDEC). The purpose of this fact sheet is to inform the public about this proposed project and to involve the community during the NYSDEC permit application review process.

ExxonMobil Oil Corporation proposes to modify its existing SPDES permit to allow for the modified discharge resulting from the relocation and consolidation of the two active groundwater treatment systems to a new groundwater treatment facility to be located at 38 Varick Street. Subsequent to the consolidation, treated effluent will only discharge from Outfall 002.

How might the project affect the surrounding community?

The potential impacts surrounding the construction of a new groundwater treatment facility at 38 Varick Street are expected to be typical of a new building construction. The existing RCS and ORS treatment buildings will be decommissioned following construction and start-up of the new facility. The new system will support long-term operations and remediation activities in accordance with the Site's Consent Decree. For clarity, the potential impacts have been categorized based on construction impacts (construction of new facility) and operational impacts (long-term operation of the new treatment facility):

The construction-based impacts are expected to be typical of new building construction and are expected to conclude within 1.5 years of groundbreaking. Impacts are expected to include:

- Potential intermittent periods of increased traffic due to equipment and material deliveries, as well as disposal of excavated soils and construction debris.
- Potential nuisance, dust, odors and noise produced by intermittent heavy construction equipment use during demolition and construction activities.
    - A Community Air Monitoring Program (CAMP) will be developed for all phases of the new facility's construction. The program will outline monitoring, response, and mitigation procedures to be implemented during construction. This program is intended to reduce the likelihood of potential nuisance dust, odor or noise events occurring that would potentially affect the public.

The long-term operational impacts potentially include:

- Operations and Maintenance activities (once operational) will produce background mechanical noise. However, as all equipment will be installed within the walls of the new facility, the potential for nuisance noise to exist outside of the facility is minimal.
- Periodic material deliveries and operational waste removal will result in an intermittent increase in activity at the 38 Varick Street property.

How can I participate in the permit review process?

- Attend the upcoming virtual public meeting scheduled for [DATE] at [TIME] to learn about the project, ask questions and/or express concerns about the project.
- Ask questions, express concerns, provide input or submit by comments in writing, by phone or email to the project contact person identified below.

Where can I get more information about the proposed project?

- Visit the online document repository at: [REPOSITORY LINK] to obtain application materials, relevant documents, and information about the project.
- Contact Kevin M. Thompson by phone at: (718) 404-0675, by email at: kevin.m.thompson@exxonmobil.com or in writing at: 38 Varick Street, Brooklyn, New York 11222 for information on the project, instructions on how to attend the upcoming virtual public meeting, or to find out about the status of the permit application and public comment period.

Who is responsible for reviewing the Permit Application?

- NYSDEC Region 2 Headquarters, 47-40 21st St., Long Island City, NY 11101, is responsible for reviewing and issuing the required permit modification. Tel: (718) 482-4997; email: DEP.R2@dec.ny.gov