

Haley Griffith (adpce.ad)

From: Acree, Matt J <Matt.Acree@terracon.com>
Sent: Tuesday, January 21, 2025 9:47 AM
To: EE GW Reports
Subject: City of Little Rock Additional Sampling Results (AFIN: 60-01071)
Attachments: Little Rock Landfill Sampling Results Report.pdf

To whom it may concern,

Please find attached to this message the additional sampling results taken during the Second Half of 2024 semi-annual sampling event at the City of Little Rock Landfill (AFIN: 60-01071).

If you have any questions or concerns, please feel free to contact either David Jaros (David.Jaros@terracon.com) or myself.

Thank you,

Matt Acree, P.G.

Staff Geologist



25809 I-30 South | Bryant, Arkansas 72022

M (501) 593 2680 | O (501) 943 1044

matt.acree@terracon.com | terracon.com

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25809 I-30 South
Bryant, AR 72022
P (501) 847-9292
F (501) 847-9210
Terracon.com

January 21, 2025

Office of Land Resources
Division of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Re: Additional Landfill Sampling Report
Permit Number: 0266-S1 **AFIN: 60-01071**

To whom it may concern:

Terracon Consultants, Inc. (Terracon) is pleased to present this report on behalf of the City of Little Rock Landfill. This letter details the results of the Arkansas Department of Environmental Quality (DEQ) requested sampling of two drainage ditches around the landfill, collected during the second half of 2024 semi-annual monitoring event, September 9 & 10, 2024. These samples were analyzed for the same parameters as those used in groundwater monitoring.

Overview

The sampling at the landfill involved collecting, analyzing, and comparing results. Two ditch samples (C-4 RD DITCH-2 and GCS-4-DITCH), two underdrain samples (GCS-1 and GCS-4), and the most current leachate results were used in the comparison. This analysis aimed to determine if the ditch samples might be influenced by seepage from the landfill.

General Chemistry Analysis

- **Chloride:**

- **Ditch Samples:** C-4 RD DITCH-2 (17 mg/kg), GCS-4-DITCH (25 mg/kg)
- **Underdrain Samples:** GCS-1 (15 mg/kg), GCS-4 (27 mg/kg)
- **Leachate:** 430 mg/kg
- **Observation:** Chloride levels are significantly higher in the leachate compared to the ditch and underdrain samples. The relatively low chloride levels in the ditch samples indicate that the ditch samples were not related to landfill leachate.

Additional Landfill Sampling Report

City of Little Rock Class 1 Landfill ■ Little Rock, Arkansas

January 2025 ■ Terracon Project No. 35957056C



- **Sulfate:**

- **Ditch Samples:** C-4 RD DITCH-2 (24 mg/kg), GCS-4-DITCH (8.9 mg/kg)
- **Underdrain Samples:** GCS-1 (16 mg/kg), GCS-4 (9 mg/kg)
- **Leachate:** 4.9 mg/kg
- **Observation:** Sulfate concentrations are higher in the ditch and underdrain samples compared to the leachate. This indicates that the sulfate levels in the ditch samples indicate that the ditch samples were not related to landfill leachate.

- **Total Dissolved Solids (TDS):**

- **Ditch Samples:** C-4 RD DITCH-2 (280 mg/kg), GCS-4-DITCH (450 mg/kg)
- **Underdrain Samples:** GCS-1 (290 mg/kg), GCS-4 (460 mg/kg)
- **Leachate:** 2100 mg/kg
- **Observation:** The TDS levels are significantly higher in the leachate compared to the ditch and underdrain samples. The lower TDS levels in the ditch samples indicate that ditch samples were not related to landfill leachate.

- **Total Organic Carbon (TOC):**

- **Ditch Samples:** C-4 RD DITCH-2 (4.3 mg/kg), GCS-4-DITCH (4.8 mg/kg)
- **Underdrain Samples:** GCS-1 (3.6 mg/kg), GCS-4 (4.6 mg/kg)
- **Leachate:** 91 mg/kg
- **Observation:** The TOC levels are significantly higher in the leachate compared to the ditch and underdrain samples. The relatively low TOC levels in the ditch samples indicate that ditch samples were not related to landfill leachate.

Metals Analysis

The metals analysis shows that most metal concentrations in the samples were non-detects. The detected metals in the ditch were similar to the underdrain results and dissimilar to the leachate suggesting the ditch samples were not related to landfill activities.

VOC Analysis

No volatile organic compounds (VOCs) were detected in either the underdrain or ditch samples. However, it is important to note that the leachate results indicated the presence of several VOCs, including 1,4-dichlorobenzene, ethylbenzene, 2-butanone, toluene, and xylene. All of these detections were below the reporting limit, with the exception of xylene. Compared to the other samples, this would suggest they were dissimilar from leachate.

Conclusion

The general chemistry results provide strong evidence that the ditch samples (C-4 RD DITCH-2 and GCS-4-DITCH) are dissimilar to the leachate sample but are similar to the underdrain

Additional Landfill Sampling Report

City of Little Rock Class 1 Landfill ■ Little Rock, Arkansas
January 2025 ■ Terracon Project No. 35957056C



sample results. This suggests that the ditch samples are not influenced by the landfill activities. The metals analysis supports this conclusion, as the metal concentrations in the ditch samples are more similar to the underdrain samples and show no strong correlation to the leachate.

If you have any questions or comments, or desire any additional information regarding this matter, please contact David Jaros at your convenience.

Sincerely,
Terracon Consultants, Inc.

A handwritten signature in blue ink, appearing to read 'Matt Acree'.

Matt Acree, P.G.
Staff Geologist

A handwritten signature in black ink, appearing to read 'David Jaros'.

David Jaros, P.G.
Project Manager

A handwritten signature in black ink, appearing to read 'Quin Baber'.

Quin Baber, P.G.
Environmental Manager

*Attachments: Table 1 – Screening Levels
Analytical Results*

Table 1
Water Comparison Results
Little Rock Landfill

Sample ID	GCS-1	GCS-4	C-4 RD DITCH-2	GCS-4-DITCH	Leachate	EPA Industrial Screening Levels: MCL (mg/L)
Date	9/9/2024 & 9/10/2024				8/11/2023	
	Metals (mg/L)					
Antimony	<0.0029	<0.0029	<0.0029	<0.0029	<0.015	0.006
Arsenic	0.0024	0.0022	0.0031	0.00058	0.053	0.01
Barium	0.24	0.29	0.24	0.22	0.26	2
Beryllium	<0.000098	0.00012 J	<0.000098	<0.000098	<0.00049	0.004
Cadmium	<0.000028	<0.000028	<0.000028	0.000046 J	<0.00014	0.005
Chromium	0.00047	<0.00047	0.00057	<0.00047	0.016	0.1
Cobalt	<0.00072	<0.00072	0.00096 J	<0.00072	0.0075 J	--
Copper	0.0023	0.0024	0.0029	0.0027	<0.0014	1.3
Lead	<0.00021	0.00023 J	0.0008	0.00031 J	<0.0011	0.015
Nickel	0.0023	0.003	0.0028	0.0029	0.035	--
Selenium	<0.00072	<0.00072	<0.00072	0.00079 J	<0.0036	0.05
Silver	<0.000069	<0.000069	<0.000069	<0.000069	<0.00035	--
Thallium	<0.000045	<0.000045	<0.000045	<0.000045	<0.00023	0.002
Vanadium	0.0025 J	0.0023 J	0.0027 J	0.0022 J	<0.0080	--
Zinc	0.0034 J	0.0034 J	0.0040 J	0.0041 J	<0.0090	--
	General Chemistry (mg/kg)					
Chloride	15	27	17	25	430	---
Sulfate	16	9	24	8.9	4.9	---
Total Dissolved Solids	290	460	280	450	2100	---
Total Organic Carbon	3.6	4.6	4.3	4.8	91	---

J – Indicated the concentration is estimated because the constituent was detected at a concentration between the laboratory detection limit and the method detection limit (MDL).

< - not detected at concentrations above the laboratory detection limit.

ND - None Detected

NA - Not Applicable

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. David Jaros
Terracon Consultants Inc
25809 I-90
Bryant, Arkansas 72022
Generated 9/20/2024 11:37:35 AM

JOB DESCRIPTION

Groundwater

JOB NUMBER

192-14963-1

Eurofins Arkansas

Job Notes

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Authorized for release by
Steve Bradford, Lab Director
steve.bradford@et.eurofinsus.com
(501)224-5060



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Definitions/Glossary

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

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.

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.

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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Terracon Consultants Inc
Project: Groundwater

Job ID: 192-14963-1

Job ID: 192-14963-1

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Job Narrative 192-14963-1

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

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

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

Receipt

The samples were received on 9/10/2024 2:19 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 3.1°C and 3.4°C.

GC/MS 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

Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 192-23190 and analytical batch 192-23225 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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.

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-1A

Lab Sample ID: 192-14963-1

Date Collected: 09/10/24 09:14

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/16/24 23:33	1
Benzene	<1.5		5.0	1.5	ug/L			09/16/24 23:33	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/16/24 23:33	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/16/24 23:33	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/16/24 23:33	1
Bromoform	<1.3		5.0	1.3	ug/L			09/16/24 23:33	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/16/24 23:33	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/16/24 23:33	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/16/24 23:33	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/16/24 23:33	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/16/24 23:33	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/16/24 23:33	1
Chloroform	<2.1		4.0	2.1	ug/L			09/16/24 23:33	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/16/24 23:33	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/16/24 23:33	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/16/24 23:33	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/16/24 23:33	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/16/24 23:33	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/16/24 23:33	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/16/24 23:33	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/16/24 23:33	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 23:33	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/16/24 23:33	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/16/24 23:33	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/16/24 23:33	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/16/24 23:33	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/16/24 23:33	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/16/24 23:33	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/16/24 23:33	1
Iodomethane	<6.3		10	6.3	ug/L			09/16/24 23:33	1
2-Hexanone	<3.8		10	3.8	ug/L			09/16/24 23:33	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/16/24 23:33	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/16/24 23:33	1
Styrene	<3.0		5.0	3.0	ug/L			09/16/24 23:33	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/16/24 23:33	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/16/24 23:33	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/16/24 23:33	1
Toluene	<3.2		5.0	3.2	ug/L			09/16/24 23:33	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/16/24 23:33	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 23:33	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/16/24 23:33	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/16/24 23:33	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/16/24 23:33	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 23:33	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 23:33	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/16/24 23:33	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/16/24 23:33	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/16/24 23:33	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/16/24 23:33	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-1A

Lab Sample ID: 192-14963-1

Date Collected: 09/10/24 09:14

Matrix: Water

Date Received: 09/10/24 14:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		91 - 109		09/16/24 23:33	1
Toluene-d8 (Surr)	94		87 - 112		09/16/24 23:33	1
4-Bromofluorobenzene (Surr)	90		86 - 112		09/16/24 23:33	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76		2.0	1.5	mg/L			09/13/24 05:38	10
Sulfate	2.5		2.0	1.2	mg/L			09/13/24 05:38	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 17:40	1
Arsenic	0.0015		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 17:40	1
Lead	0.00029	J	0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 17:40	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 17:40	1
Thallium	0.000047	J	0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 17:40	1
Cadmium	0.000029	J	0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 17:40	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 17:40	1
Barium	0.11		0.010	0.0013	mg/L		09/17/24 16:21	09/17/24 18:21	5
Iron	0.22		0.050	0.014	mg/L		09/17/24 16:21	09/17/24 17:40	1
Nickel	0.0020		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 17:40	1
Vanadium	0.0021	J	0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 17:40	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 17:40	1
Copper	0.0021		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 17:40	1
Zinc	0.0057	J	0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 17:40	1
Manganese	0.12		0.10	0.0017	mg/L		09/17/24 16:21	09/17/24 18:21	5
Chromium	<0.00047		0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 17:40	1
Cobalt	<0.00072		0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	450		25	25	mg/L			09/11/24 10:38	1
Sulfide (SM 4500 S2 G-2011)	0.038		0.025	0.0049	mg/L			09/16/24 16:31	1
Total Organic Carbon (SM 5310 C-2014)	1.3	B	1.0	0.20	mg/L			09/12/24 13:13	1

Client Sample ID: MW-2A

Lab Sample ID: 192-14963-2

Date Collected: 09/09/24 11:37

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/16/24 20:05	1
Benzene	<1.5		5.0	1.5	ug/L			09/16/24 20:05	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/16/24 20:05	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/16/24 20:05	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/16/24 20:05	1
Bromoform	<1.3		5.0	1.3	ug/L			09/16/24 20:05	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/16/24 20:05	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/16/24 20:05	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/16/24 20:05	1

Euofins Arkansas

Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-2A

Lab Sample ID: 192-14963-2

Date Collected: 09/09/24 11:37

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/16/24 20:05	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/16/24 20:05	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/16/24 20:05	1
Chloroform	<2.1		4.0	2.1	ug/L			09/16/24 20:05	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/16/24 20:05	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/16/24 20:05	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/16/24 20:05	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/16/24 20:05	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/16/24 20:05	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/16/24 20:05	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/16/24 20:05	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/16/24 20:05	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 20:05	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/16/24 20:05	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/16/24 20:05	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/16/24 20:05	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/16/24 20:05	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/16/24 20:05	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/16/24 20:05	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/16/24 20:05	1
Iodomethane	<6.3		10	6.3	ug/L			09/16/24 20:05	1
2-Hexanone	<3.8		10	3.8	ug/L			09/16/24 20:05	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/16/24 20:05	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/16/24 20:05	1
Styrene	<3.0		5.0	3.0	ug/L			09/16/24 20:05	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/16/24 20:05	1
1,1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/16/24 20:05	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/16/24 20:05	1
Toluene	<3.2		5.0	3.2	ug/L			09/16/24 20:05	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/16/24 20:05	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 20:05	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/16/24 20:05	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/16/24 20:05	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/16/24 20:05	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 20:05	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 20:05	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/16/24 20:05	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/16/24 20:05	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/16/24 20:05	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/16/24 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		91 - 109		09/16/24 20:05	1
Toluene-d8 (Surr)	92		87 - 112		09/16/24 20:05	1
4-Bromofluorobenzene (Surr)	94		86 - 112		09/16/24 20:05	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		2.0	1.5	mg/L			09/13/24 06:01	10
Sulfate	23		2.0	1.2	mg/L			09/13/24 06:01	10

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-2A

Lab Sample ID: 192-14963-2

Date Collected: 09/09/24 11:37

Matrix: Water

Date Received: 09/10/24 14:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 19:53	1
Arsenic	0.0045		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 19:53	1
Lead	0.00039	J	0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 19:53	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 19:53	1
Thallium	<0.000045		0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 19:53	1
Cadmium	0.000054	J	0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 19:53	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 19:53	1
Barium	0.14		0.010	0.0013	mg/L		09/17/24 16:21	09/18/24 14:15	5
Iron	0.82		0.050	0.014	mg/L		09/17/24 16:21	09/17/24 19:53	1
Nickel	0.0024		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 19:53	1
Vanadium	0.0027	J	0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 19:53	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 19:53	1
Copper	0.0029		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 19:53	1
Zinc	0.0073	J	0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 19:53	1
Manganese	0.15		0.10	0.0017	mg/L		09/17/24 16:21	09/18/24 14:15	5
Chromium	<0.00047		0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 19:53	1
Cobalt	<0.00072		0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 19:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	310		25	25	mg/L			09/11/24 10:38	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			09/16/24 16:31	1
Total Organic Carbon (SM 5310 C-2014)	1.3	B	1.0	0.20	mg/L			09/12/24 14:21	1

Client Sample ID: MW-3A

Lab Sample ID: 192-14963-3

Date Collected: 09/09/24 12:37

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/16/24 20:35	1
Benzene	<1.5		5.0	1.5	ug/L			09/16/24 20:35	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/16/24 20:35	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/16/24 20:35	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/16/24 20:35	1
Bromoform	<1.3		5.0	1.3	ug/L			09/16/24 20:35	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/16/24 20:35	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/16/24 20:35	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/16/24 20:35	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/16/24 20:35	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/16/24 20:35	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/16/24 20:35	1
Chloroform	<2.1		4.0	2.1	ug/L			09/16/24 20:35	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/16/24 20:35	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/16/24 20:35	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/16/24 20:35	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/16/24 20:35	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/16/24 20:35	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/16/24 20:35	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-3A

Lab Sample ID: 192-14963-3

Date Collected: 09/09/24 12:37

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/16/24 20:35	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/16/24 20:35	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 20:35	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/16/24 20:35	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/16/24 20:35	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/16/24 20:35	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/16/24 20:35	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/16/24 20:35	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/16/24 20:35	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/16/24 20:35	1
Iodomethane	<6.3		10	6.3	ug/L			09/16/24 20:35	1
2-Hexanone	<3.8		10	3.8	ug/L			09/16/24 20:35	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/16/24 20:35	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/16/24 20:35	1
Styrene	<3.0		5.0	3.0	ug/L			09/16/24 20:35	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/16/24 20:35	1
1,1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/16/24 20:35	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/16/24 20:35	1
Toluene	<3.2		5.0	3.2	ug/L			09/16/24 20:35	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/16/24 20:35	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 20:35	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/16/24 20:35	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/16/24 20:35	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/16/24 20:35	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 20:35	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 20:35	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/16/24 20:35	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/16/24 20:35	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/16/24 20:35	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/16/24 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		91 - 109		09/16/24 20:35	1
Toluene-d8 (Surr)	95		87 - 112		09/16/24 20:35	1
4-Bromofluorobenzene (Surr)	90		86 - 112		09/16/24 20:35	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		2.0	1.5	mg/L			09/13/24 06:24	10
Sulfate	35		2.0	1.2	mg/L			09/13/24 06:24	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 19:57	1
Arsenic	0.00085		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 19:57	1
Lead	0.00023	J	0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 19:57	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 19:57	1
Thallium	<0.000045		0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 19:57	1
Cadmium	0.000056	J	0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 19:57	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 19:57	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-3A

Lab Sample ID: 192-14963-3

Date Collected: 09/09/24 12:37

Matrix: Water

Date Received: 09/10/24 14:19

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19		0.020	0.0026	mg/L		09/17/24 16:21	09/18/24 14:19	10
Iron	10		0.050	0.014	mg/L		09/17/24 16:21	09/17/24 19:57	1
Nickel	0.0025		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 19:57	1
Vanadium	0.0027	J	0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 19:57	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 19:57	1
Copper	0.0027		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 19:57	1
Zinc	0.0050	J	0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 19:57	1
Manganese	0.27		0.20	0.0034	mg/L		09/17/24 16:21	09/18/24 14:19	10
Chromium	<0.00047		0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 19:57	1
Cobalt	<0.00072		0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 19:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	160		25	25	mg/L			09/11/24 10:38	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			09/16/24 16:31	1
Total Organic Carbon (SM 5310 C-2014)	1.6	B	1.0	0.20	mg/L			09/12/24 14:44	1

Client Sample ID: MW-4A

Lab Sample ID: 192-14963-4

Date Collected: 09/09/24 14:34

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/16/24 21:04	1
Benzene	<1.5		5.0	1.5	ug/L			09/16/24 21:04	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/16/24 21:04	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/16/24 21:04	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/16/24 21:04	1
Bromoform	<1.3		5.0	1.3	ug/L			09/16/24 21:04	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/16/24 21:04	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/16/24 21:04	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/16/24 21:04	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/16/24 21:04	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/16/24 21:04	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/16/24 21:04	1
Chloroform	<2.1		4.0	2.1	ug/L			09/16/24 21:04	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/16/24 21:04	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/16/24 21:04	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/16/24 21:04	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/16/24 21:04	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/16/24 21:04	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/16/24 21:04	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/16/24 21:04	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/16/24 21:04	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 21:04	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/16/24 21:04	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/16/24 21:04	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/16/24 21:04	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/16/24 21:04	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-4A

Lab Sample ID: 192-14963-4

Date Collected: 09/09/24 14:34

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/16/24 21:04	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/16/24 21:04	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/16/24 21:04	1
Iodomethane	<6.3		10	6.3	ug/L			09/16/24 21:04	1
2-Hexanone	<3.8		10	3.8	ug/L			09/16/24 21:04	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/16/24 21:04	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/16/24 21:04	1
Styrene	<3.0		5.0	3.0	ug/L			09/16/24 21:04	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/16/24 21:04	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/16/24 21:04	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/16/24 21:04	1
Toluene	<3.2		5.0	3.2	ug/L			09/16/24 21:04	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/16/24 21:04	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 21:04	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/16/24 21:04	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/16/24 21:04	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/16/24 21:04	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 21:04	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 21:04	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/16/24 21:04	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/16/24 21:04	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/16/24 21:04	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/16/24 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		91 - 109		09/16/24 21:04	1
Toluene-d8 (Surr)	93		87 - 112		09/16/24 21:04	1
4-Bromofluorobenzene (Surr)	93		86 - 112		09/16/24 21:04	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.7		2.0	1.5	mg/L			09/13/24 06:47	10
Sulfate	8.3		2.0	1.2	mg/L			09/13/24 06:47	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 20:01	1
Arsenic	0.0033		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 20:01	1
Lead	0.00038	J	0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 20:01	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 20:01	1
Thallium	<0.000045		0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 20:01	1
Cadmium	0.000038	J	0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 20:01	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 20:01	1
Barium	0.26		0.020	0.0026	mg/L		09/17/24 16:21	09/18/24 14:23	10
Iron	6.6		0.050	0.014	mg/L		09/17/24 16:21	09/17/24 20:01	1
Nickel	0.0029		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 20:01	1
Vanadium	0.0054	J	0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 20:01	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 20:01	1
Copper	0.0039		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 20:01	1
Zinc	0.012		0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 20:01	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-4A

Lab Sample ID: 192-14963-4

Date Collected: 09/09/24 14:34

Matrix: Water

Date Received: 09/10/24 14:19

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.28		0.20	0.0034	mg/L		09/17/24 16:21	09/18/24 14:23	10
Chromium	0.00081		0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 20:01	1
Cobalt	<0.00072		0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 20:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	180		25	25	mg/L			09/11/24 10:38	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			09/16/24 16:31	1
Total Organic Carbon (SM 5310 C-2014)	1.3	B	1.0	0.20	mg/L			09/12/24 15:07	1

Client Sample ID: MW-6B

Lab Sample ID: 192-14963-5

Date Collected: 09/10/24 10:25

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/17/24 00:03	1
Benzene	<1.5		5.0	1.5	ug/L			09/17/24 00:03	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/17/24 00:03	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/17/24 00:03	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/17/24 00:03	1
Bromoform	<1.3		5.0	1.3	ug/L			09/17/24 00:03	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/17/24 00:03	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/17/24 00:03	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/17/24 00:03	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/17/24 00:03	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/17/24 00:03	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/17/24 00:03	1
Chloroform	<2.1		4.0	2.1	ug/L			09/17/24 00:03	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/17/24 00:03	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/17/24 00:03	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/17/24 00:03	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/17/24 00:03	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/17/24 00:03	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/17/24 00:03	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/17/24 00:03	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/17/24 00:03	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 00:03	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/17/24 00:03	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/17/24 00:03	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/17/24 00:03	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/17/24 00:03	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/17/24 00:03	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/17/24 00:03	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/17/24 00:03	1
Iodomethane	<6.3		10	6.3	ug/L			09/17/24 00:03	1
2-Hexanone	<3.8		10	3.8	ug/L			09/17/24 00:03	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/17/24 00:03	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/17/24 00:03	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-6B

Lab Sample ID: 192-14963-5

Date Collected: 09/10/24 10:25

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<3.0		5.0	3.0	ug/L			09/17/24 00:03	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/17/24 00:03	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/17/24 00:03	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/17/24 00:03	1
Toluene	<3.2		5.0	3.2	ug/L			09/17/24 00:03	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/17/24 00:03	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 00:03	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/17/24 00:03	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/17/24 00:03	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/17/24 00:03	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 00:03	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 00:03	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/17/24 00:03	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/17/24 00:03	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/17/24 00:03	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/17/24 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		91 - 109					09/17/24 00:03	1
Toluene-d8 (Surr)	91		87 - 112					09/17/24 00:03	1
4-Bromofluorobenzene (Surr)	89		86 - 112					09/17/24 00:03	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		2.0	1.5	mg/L			09/13/24 07:09	10
Sulfate	38		2.0	1.2	mg/L			09/13/24 07:09	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 20:05	1
Arsenic	0.0061		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 20:05	1
Lead	0.00062		0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 20:05	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 20:05	1
Thallium	<0.000045		0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 20:05	1
Cadmium	0.000062	J	0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 20:05	1
Beryllium	0.00011	J	0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 20:05	1
Barium	0.14		0.020	0.0026	mg/L		09/17/24 16:21	09/18/24 15:10	10
Iron	14		0.50	0.14	mg/L		09/17/24 16:21	09/18/24 15:10	10
Nickel	0.0042		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 20:05	1
Vanadium	0.0089	J	0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 20:05	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 20:05	1
Copper	0.013		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 20:05	1
Zinc	0.027		0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 20:05	1
Manganese	4.7		2.0	0.034	mg/L		09/17/24 16:21	09/18/24 14:27	100
Chromium	0.00071		0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 20:05	1
Cobalt	0.0016	J	0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 20:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	220		25	25	mg/L			09/11/24 10:38	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-6B

Lab Sample ID: 192-14963-5

Date Collected: 09/10/24 10:25

Matrix: Water

Date Received: 09/10/24 14:19

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			09/16/24 16:31	1
Total Organic Carbon (SM 5310 C-2014)	11	B	1.0	0.20	mg/L			09/12/24 15:30	1

Client Sample ID: MW-7A

Lab Sample ID: 192-14963-6

Date Collected: 09/10/24 09:47

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	8.0	J	10	6.3	ug/L			09/17/24 00:33	1
Benzene	<1.5		5.0	1.5	ug/L			09/17/24 00:33	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/17/24 00:33	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/17/24 00:33	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/17/24 00:33	1
Bromoform	<1.3		5.0	1.3	ug/L			09/17/24 00:33	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/17/24 00:33	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/17/24 00:33	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/17/24 00:33	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/17/24 00:33	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/17/24 00:33	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/17/24 00:33	1
Chloroform	<2.1		4.0	2.1	ug/L			09/17/24 00:33	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/17/24 00:33	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/17/24 00:33	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/17/24 00:33	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/17/24 00:33	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/17/24 00:33	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/17/24 00:33	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/17/24 00:33	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/17/24 00:33	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 00:33	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/17/24 00:33	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/17/24 00:33	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/17/24 00:33	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/17/24 00:33	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/17/24 00:33	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/17/24 00:33	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/17/24 00:33	1
Iodomethane	<6.3		10	6.3	ug/L			09/17/24 00:33	1
2-Hexanone	<3.8		10	3.8	ug/L			09/17/24 00:33	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/17/24 00:33	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/17/24 00:33	1
Styrene	<3.0		5.0	3.0	ug/L			09/17/24 00:33	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/17/24 00:33	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/17/24 00:33	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/17/24 00:33	1
Toluene	<3.2		5.0	3.2	ug/L			09/17/24 00:33	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/17/24 00:33	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 00:33	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-7A

Lab Sample ID: 192-14963-6

Date Collected: 09/10/24 09:47

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<2.0		5.0	2.0	ug/L			09/17/24 00:33	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/17/24 00:33	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/17/24 00:33	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 00:33	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 00:33	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/17/24 00:33	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/17/24 00:33	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/17/24 00:33	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/17/24 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		91 - 109					09/17/24 00:33	1
Toluene-d8 (Surr)	92		87 - 112					09/17/24 00:33	1
4-Bromofluorobenzene (Surr)	92		86 - 112					09/17/24 00:33	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.8		2.0	1.5	mg/L			09/13/24 08:18	10
Sulfate	9.1		2.0	1.2	mg/L			09/13/24 08:18	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 20:09	1
Arsenic	0.0049		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 20:09	1
Lead	0.00027	J	0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 20:09	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 20:09	1
Thallium	0.00023	J	0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 20:09	1
Cadmium	0.000091	J	0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 20:09	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 20:09	1
Barium	0.35		0.020	0.0026	mg/L		09/17/24 16:21	09/18/24 15:13	10
Iron	0.34		0.050	0.014	mg/L		09/17/24 16:21	09/17/24 20:09	1
Nickel	0.019		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 20:09	1
Vanadium	0.0079	J	0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 20:09	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 20:09	1
Copper	0.0026		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 20:09	1
Zinc	0.016		0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 20:09	1
Manganese	7.2		2.0	0.034	mg/L		09/17/24 16:21	09/18/24 14:31	100
Chromium	<0.00047		0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 20:09	1
Cobalt	0.079		0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 20:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	120		25	25	mg/L			09/11/24 10:38	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			09/16/24 16:31	1
Total Organic Carbon (SM 5310 C-2014)	6.8	B	1.0	0.20	mg/L			09/12/24 15:52	1

Eurolins Arkansas

Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: GCS-1

Lab Sample ID: 192-14963-7

Date Collected: 09/10/24 07:50

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/17/24 01:03	1
Benzene	<1.5		5.0	1.5	ug/L			09/17/24 01:03	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/17/24 01:03	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/17/24 01:03	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/17/24 01:03	1
Bromoform	<1.3		5.0	1.3	ug/L			09/17/24 01:03	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/17/24 01:03	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/17/24 01:03	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/17/24 01:03	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/17/24 01:03	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/17/24 01:03	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/17/24 01:03	1
Chloroform	<2.1		4.0	2.1	ug/L			09/17/24 01:03	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/17/24 01:03	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/17/24 01:03	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/17/24 01:03	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/17/24 01:03	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/17/24 01:03	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/17/24 01:03	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/17/24 01:03	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/17/24 01:03	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 01:03	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/17/24 01:03	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/17/24 01:03	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/17/24 01:03	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/17/24 01:03	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/17/24 01:03	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/17/24 01:03	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/17/24 01:03	1
Iodomethane	<6.3		10	6.3	ug/L			09/17/24 01:03	1
2-Hexanone	<3.8		10	3.8	ug/L			09/17/24 01:03	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/17/24 01:03	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/17/24 01:03	1
Styrene	<3.0		5.0	3.0	ug/L			09/17/24 01:03	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/17/24 01:03	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/17/24 01:03	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/17/24 01:03	1
Toluene	<3.2		5.0	3.2	ug/L			09/17/24 01:03	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/17/24 01:03	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 01:03	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/17/24 01:03	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/17/24 01:03	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/17/24 01:03	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 01:03	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 01:03	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/17/24 01:03	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/17/24 01:03	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/17/24 01:03	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/17/24 01:03	1

Eurofins Arkansas

Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: GCS-1
Date Collected: 09/10/24 07:50
Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		91 - 109		09/17/24 01:03	1
Toluene-d8 (Surr)	91		87 - 112		09/17/24 01:03	1
4-Bromofluorobenzene (Surr)	89		86 - 112		09/17/24 01:03	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		0.20	0.15	mg/L			09/17/24 22:21	1
Sulfate	16		0.20	0.12	mg/L			09/18/24 12:57	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 20:13	1
Arsenic	0.0024		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 20:13	1
Lead	<0.00021		0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 20:13	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 20:13	1
Thallium	<0.000045		0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 20:13	1
Cadmium	<0.000028		0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 20:13	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 20:13	1
Barium	0.24		0.020	0.0026	mg/L		09/17/24 16:21	09/18/24 15:17	10
Iron	40		0.50	0.14	mg/L		09/17/24 16:21	09/18/24 15:17	10
Nickel	0.0023		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 20:13	1
Vanadium	0.0025	J	0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 20:13	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 20:13	1
Copper	0.0023		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 20:13	1
Zinc	0.0034	J	0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 20:13	1
Manganese	5.9		2.0	0.034	mg/L		09/17/24 16:21	09/18/24 14:35	100
Chromium	0.00047	J	0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 20:13	1
Cobalt	<0.00072		0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 20:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	290		25	25	mg/L			09/11/24 10:38	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			09/16/24 16:31	1
Total Organic Carbon (SM 5310 C-2014)	3.6	B	1.0	0.20	mg/L			09/12/24 17:01	1

Client Sample ID: GCS-4
Date Collected: 09/09/24 10:05
Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/16/24 21:34	1
Benzene	<1.5		5.0	1.5	ug/L			09/16/24 21:34	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/16/24 21:34	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/16/24 21:34	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/16/24 21:34	1
Bromoform	<1.3		5.0	1.3	ug/L			09/16/24 21:34	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/16/24 21:34	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/16/24 21:34	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/16/24 21:34	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: GCS-4

Lab Sample ID: 192-14963-8

Date Collected: 09/09/24 10:05

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/16/24 21:34	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/16/24 21:34	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/16/24 21:34	1
Chloroform	<2.1		4.0	2.1	ug/L			09/16/24 21:34	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/16/24 21:34	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/16/24 21:34	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/16/24 21:34	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/16/24 21:34	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/16/24 21:34	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/16/24 21:34	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/16/24 21:34	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/16/24 21:34	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 21:34	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/16/24 21:34	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/16/24 21:34	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/16/24 21:34	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/16/24 21:34	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/16/24 21:34	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/16/24 21:34	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/16/24 21:34	1
Iodomethane	<6.3		10	6.3	ug/L			09/16/24 21:34	1
2-Hexanone	<3.8		10	3.8	ug/L			09/16/24 21:34	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/16/24 21:34	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/16/24 21:34	1
Styrene	<3.0		5.0	3.0	ug/L			09/16/24 21:34	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/16/24 21:34	1
1,1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/16/24 21:34	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/16/24 21:34	1
Toluene	<3.2		5.0	3.2	ug/L			09/16/24 21:34	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/16/24 21:34	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 21:34	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/16/24 21:34	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/16/24 21:34	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/16/24 21:34	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 21:34	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 21:34	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/16/24 21:34	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/16/24 21:34	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/16/24 21:34	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/16/24 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		91 - 109		09/16/24 21:34	1
Toluene-d8 (Surr)	91		87 - 112		09/16/24 21:34	1
4-Bromofluorobenzene (Surr)	94		86 - 112		09/16/24 21:34	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27		2.0	1.5	mg/L			09/13/24 09:03	10
Sulfate	9.0		2.0	1.2	mg/L			09/13/24 09:03	10

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: GCS-4

Lab Sample ID: 192-14963-8

Date Collected: 09/09/24 10:05

Matrix: Water

Date Received: 09/10/24 14:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 20:17	1
Arsenic	0.0022		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 20:17	1
Lead	0.00023	J	0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 20:17	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 20:17	1
Thallium	<0.000045		0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 20:17	1
Cadmium	<0.000028		0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 20:17	1
Beryllium	0.00012	J	0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 20:17	1
Barium	0.29		0.020	0.0026	mg/L		09/17/24 16:21	09/18/24 15:21	10
Iron	27		0.50	0.14	mg/L		09/17/24 16:21	09/18/24 15:21	10
Nickel	0.0030		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 20:17	1
Vanadium	0.0023	J	0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 20:17	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 20:17	1
Copper	0.0024		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 20:17	1
Zinc	0.0034	J	0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 20:17	1
Manganese	4.0		1.0	0.017	mg/L		09/17/24 16:21	09/18/24 14:39	50
Chromium	<0.00047		0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 20:17	1
Cobalt	<0.00072		0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 20:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	460		25	25	mg/L			09/11/24 10:38	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			09/16/24 16:31	1
Total Organic Carbon (SM 5310 C-2014)	4.6	B	1.0	0.20	mg/L			09/12/24 17:24	1

Client Sample ID: Equipment Blank

Lab Sample ID: 192-14963-9

Date Collected: 09/09/24 11:00

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/16/24 22:04	1
Benzene	<1.5		5.0	1.5	ug/L			09/16/24 22:04	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/16/24 22:04	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/16/24 22:04	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/16/24 22:04	1
Bromoform	<1.3		5.0	1.3	ug/L			09/16/24 22:04	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/16/24 22:04	1
2-Butanone (MEK)	8.5	J	10	3.3	ug/L			09/16/24 22:04	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/16/24 22:04	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/16/24 22:04	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/16/24 22:04	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/16/24 22:04	1
Chloroform	<2.1		4.0	2.1	ug/L			09/16/24 22:04	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/16/24 22:04	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/16/24 22:04	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/16/24 22:04	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/16/24 22:04	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/16/24 22:04	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/16/24 22:04	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: Equipment Blank

Lab Sample ID: 192-14963-9

Date Collected: 09/09/24 11:00

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/16/24 22:04	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/16/24 22:04	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 22:04	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/16/24 22:04	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/16/24 22:04	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/16/24 22:04	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/16/24 22:04	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/16/24 22:04	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/16/24 22:04	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/16/24 22:04	1
Iodomethane	<6.3		10	6.3	ug/L			09/16/24 22:04	1
2-Hexanone	<3.8		10	3.8	ug/L			09/16/24 22:04	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/16/24 22:04	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/16/24 22:04	1
Styrene	<3.0		5.0	3.0	ug/L			09/16/24 22:04	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/16/24 22:04	1
1,1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/16/24 22:04	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/16/24 22:04	1
Toluene	<3.2		5.0	3.2	ug/L			09/16/24 22:04	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/16/24 22:04	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 22:04	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/16/24 22:04	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/16/24 22:04	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/16/24 22:04	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 22:04	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 22:04	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/16/24 22:04	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/16/24 22:04	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/16/24 22:04	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/16/24 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		91 - 109					09/16/24 22:04	1
Toluene-d8 (Surr)	92		87 - 112					09/16/24 22:04	1
4-Bromofluorobenzene (Surr)	92		86 - 112					09/16/24 22:04	1

Client Sample ID: Trip Blank

Lab Sample ID: 192-14963-10

Date Collected: 09/10/24 00:00

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/17/24 01:33	1
Benzene	<1.5		5.0	1.5	ug/L			09/17/24 01:33	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/17/24 01:33	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/17/24 01:33	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/17/24 01:33	1
Bromoform	<1.3		5.0	1.3	ug/L			09/17/24 01:33	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/17/24 01:33	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/17/24 01:33	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: Trip Blank

Lab Sample ID: 192-14963-10

Date Collected: 09/10/24 00:00

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<5.8		10	5.8	ug/L			09/17/24 01:33	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/17/24 01:33	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/17/24 01:33	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/17/24 01:33	1
Chloroform	<2.1		4.0	2.1	ug/L			09/17/24 01:33	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/17/24 01:33	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/17/24 01:33	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/17/24 01:33	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/17/24 01:33	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/17/24 01:33	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/17/24 01:33	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/17/24 01:33	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/17/24 01:33	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 01:33	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/17/24 01:33	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/17/24 01:33	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/17/24 01:33	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/17/24 01:33	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/17/24 01:33	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/17/24 01:33	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/17/24 01:33	1
Iodomethane	<6.3		10	6.3	ug/L			09/17/24 01:33	1
2-Hexanone	<3.8		10	3.8	ug/L			09/17/24 01:33	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/17/24 01:33	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/17/24 01:33	1
Styrene	<3.0		5.0	3.0	ug/L			09/17/24 01:33	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/17/24 01:33	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/17/24 01:33	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/17/24 01:33	1
Toluene	<3.2		5.0	3.2	ug/L			09/17/24 01:33	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/17/24 01:33	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 01:33	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/17/24 01:33	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/17/24 01:33	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/17/24 01:33	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 01:33	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 01:33	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/17/24 01:33	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/17/24 01:33	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/17/24 01:33	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/17/24 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		91 - 109		09/17/24 01:33	1
Toluene-d8 (Surr)	92		87 - 112		09/17/24 01:33	1
4-Bromofluorobenzene (Surr)	88		86 - 112		09/17/24 01:33	1

Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: Dup

Lab Sample ID: 192-14963-11

Date Collected: 09/09/24 14:45

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/16/24 22:34	1
Benzene	<1.5		5.0	1.5	ug/L			09/16/24 22:34	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/16/24 22:34	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/16/24 22:34	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/16/24 22:34	1
Bromoform	<1.3		5.0	1.3	ug/L			09/16/24 22:34	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/16/24 22:34	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/16/24 22:34	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/16/24 22:34	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/16/24 22:34	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/16/24 22:34	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/16/24 22:34	1
Chloroform	<2.1		4.0	2.1	ug/L			09/16/24 22:34	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/16/24 22:34	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/16/24 22:34	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/16/24 22:34	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/16/24 22:34	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/16/24 22:34	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/16/24 22:34	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/16/24 22:34	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/16/24 22:34	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 22:34	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/16/24 22:34	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/16/24 22:34	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/16/24 22:34	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/16/24 22:34	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/16/24 22:34	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/16/24 22:34	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/16/24 22:34	1
Iodomethane	<6.3		10	6.3	ug/L			09/16/24 22:34	1
2-Hexanone	<3.8		10	3.8	ug/L			09/16/24 22:34	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/16/24 22:34	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/16/24 22:34	1
Styrene	<3.0		5.0	3.0	ug/L			09/16/24 22:34	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/16/24 22:34	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/16/24 22:34	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/16/24 22:34	1
Toluene	<3.2		5.0	3.2	ug/L			09/16/24 22:34	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/16/24 22:34	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 22:34	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/16/24 22:34	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/16/24 22:34	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/16/24 22:34	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 22:34	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 22:34	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/16/24 22:34	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/16/24 22:34	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/16/24 22:34	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/16/24 22:34	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: Dup
Date Collected: 09/09/24 14:45
Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		91 - 109		09/16/24 22:34	1
Toluene-d8 (Surr)	92		87 - 112		09/16/24 22:34	1
4-Bromofluorobenzene (Surr)	90		86 - 112		09/16/24 22:34	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.2		0.20	0.15	mg/L			09/17/24 22:44	1
Sulfate	27		0.20	0.12	mg/L			09/18/24 13:19	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 20:21	1
Arsenic	0.0032		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 20:21	1
Lead	0.00041	J	0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 20:21	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 20:21	1
Thallium	<0.000045		0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 20:21	1
Cadmium	0.000046	J	0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 20:21	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 20:21	1
Barium	0.13		0.010	0.0013	mg/L		09/17/24 16:21	09/18/24 14:42	5
Iron	6.4		0.050	0.014	mg/L		09/17/24 16:21	09/17/24 20:21	1
Nickel	0.0028		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 20:21	1
Vanadium	0.0049	J	0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 20:21	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 20:21	1
Copper	0.0037		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 20:21	1
Zinc	0.010		0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 20:21	1
Manganese	0.14		0.10	0.0017	mg/L		09/17/24 16:21	09/18/24 14:42	5
Chromium	0.00073		0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 20:21	1
Cobalt	<0.00072		0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 20:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	170		25	25	mg/L			09/11/24 10:38	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			09/16/24 16:31	1
Total Organic Carbon (SM 5310 C-2014)	1.2	B	1.0	0.20	mg/L			09/12/24 17:46	1

Client Sample ID: C-4 RD DITCH-2

Date Collected: 09/10/24 08:05
Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/17/24 02:02	1
Benzene	<1.5		5.0	1.5	ug/L			09/17/24 02:02	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/17/24 02:02	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/17/24 02:02	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/17/24 02:02	1
Bromoform	<1.3		5.0	1.3	ug/L			09/17/24 02:02	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/17/24 02:02	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/17/24 02:02	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/17/24 02:02	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: C-4 RD DITCH-2

Lab Sample ID: 192-14963-12

Date Collected: 09/10/24 08:05

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/17/24 02:02	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/17/24 02:02	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/17/24 02:02	1
Chloroform	<2.1		4.0	2.1	ug/L			09/17/24 02:02	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/17/24 02:02	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/17/24 02:02	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/17/24 02:02	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/17/24 02:02	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/17/24 02:02	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/17/24 02:02	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/17/24 02:02	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/17/24 02:02	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 02:02	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/17/24 02:02	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/17/24 02:02	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/17/24 02:02	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/17/24 02:02	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/17/24 02:02	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/17/24 02:02	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/17/24 02:02	1
Iodomethane	<6.3		10	6.3	ug/L			09/17/24 02:02	1
2-Hexanone	<3.8		10	3.8	ug/L			09/17/24 02:02	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/17/24 02:02	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/17/24 02:02	1
Styrene	<3.0		5.0	3.0	ug/L			09/17/24 02:02	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/17/24 02:02	1
1,1,1,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/17/24 02:02	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/17/24 02:02	1
Toluene	<3.2		5.0	3.2	ug/L			09/17/24 02:02	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/17/24 02:02	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 02:02	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/17/24 02:02	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/17/24 02:02	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/17/24 02:02	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 02:02	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 02:02	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/17/24 02:02	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/17/24 02:02	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/17/24 02:02	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/17/24 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		91 - 109		09/17/24 02:02	1
Toluene-d8 (Surr)	93		87 - 112		09/17/24 02:02	1
4-Bromofluorobenzene (Surr)	92		86 - 112		09/17/24 02:02	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		0.20	0.15	mg/L			09/17/24 23:07	1
Sulfate	24		0.20	0.12	mg/L			09/18/24 13:42	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: C-4 RD DITCH-2

Lab Sample ID: 192-14963-12

Date Collected: 09/10/24 08:05

Matrix: Water

Date Received: 09/10/24 14:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 20:25	1
Arsenic	0.0031		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 20:25	1
Lead	0.00080		0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 20:25	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 20:25	1
Thallium	<0.000045		0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 20:25	1
Cadmium	<0.000028		0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 20:25	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 20:25	1
Barium	0.24		0.020	0.0026	mg/L		09/17/24 16:21	09/18/24 15:29	10
Iron	32		0.50	0.14	mg/L		09/17/24 16:21	09/18/24 15:29	10
Nickel	0.0028		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 20:25	1
Vanadium	0.0027	J	0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 20:25	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 20:25	1
Copper	0.0029		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 20:25	1
Zinc	0.0040	J	0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 20:25	1
Manganese	6.1		2.0	0.034	mg/L		09/17/24 16:21	09/18/24 14:46	100
Chromium	0.00057		0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 20:25	1
Cobalt	0.00096	J	0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 20:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	280		25	25	mg/L			09/11/24 10:38	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			09/16/24 16:31	1
Total Organic Carbon (SM 5310 C-2014)	4.3	B	1.0	0.20	mg/L			09/12/24 18:09	1

Client Sample ID: GCS-4-DITCH

Lab Sample ID: 192-14963-13

Date Collected: 09/09/24 10:15

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/16/24 23:03	1
Benzene	<1.5		5.0	1.5	ug/L			09/16/24 23:03	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/16/24 23:03	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/16/24 23:03	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/16/24 23:03	1
Bromoform	<1.3		5.0	1.3	ug/L			09/16/24 23:03	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/16/24 23:03	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/16/24 23:03	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/16/24 23:03	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/16/24 23:03	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/16/24 23:03	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/16/24 23:03	1
Chloroform	<2.1		4.0	2.1	ug/L			09/16/24 23:03	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/16/24 23:03	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/16/24 23:03	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/16/24 23:03	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/16/24 23:03	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/16/24 23:03	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/16/24 23:03	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: GCS-4-DITCH

Lab Sample ID: 192-14963-13

Date Collected: 09/09/24 10:15

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/16/24 23:03	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/16/24 23:03	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 23:03	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/16/24 23:03	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/16/24 23:03	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/16/24 23:03	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/16/24 23:03	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/16/24 23:03	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/16/24 23:03	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/16/24 23:03	1
Iodomethane	<6.3		10	6.3	ug/L			09/16/24 23:03	1
2-Hexanone	<3.8		10	3.8	ug/L			09/16/24 23:03	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/16/24 23:03	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/16/24 23:03	1
Styrene	<3.0		5.0	3.0	ug/L			09/16/24 23:03	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/16/24 23:03	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/16/24 23:03	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/16/24 23:03	1
Toluene	<3.2		5.0	3.2	ug/L			09/16/24 23:03	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/16/24 23:03	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 23:03	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/16/24 23:03	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/16/24 23:03	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/16/24 23:03	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 23:03	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 23:03	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/16/24 23:03	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/16/24 23:03	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/16/24 23:03	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/16/24 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		91 - 109		09/16/24 23:03	1
Toluene-d8 (Surr)	93		87 - 112		09/16/24 23:03	1
4-Bromofluorobenzene (Surr)	90		86 - 112		09/16/24 23:03	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		2.0	1.5	mg/L			09/13/24 10:12	10
Sulfate	8.9		2.0	1.2	mg/L			09/13/24 10:12	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 20:29	1
Arsenic	0.00058		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 20:29	1
Lead	0.00031	J	0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 20:29	1
Selenium	0.00079	J	0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 20:29	1
Thallium	<0.000045		0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 20:29	1
Cadmium	0.000046	J	0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 20:29	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 20:29	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: GCS-4-DITCH

Lab Sample ID: 192-14963-13

Date Collected: 09/09/24 10:15

Matrix: Water

Date Received: 09/10/24 14:19

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.22		0.010	0.0013	mg/L		09/17/24 16:21	09/18/24 15:33	5
Iron	0.37		0.050	0.014	mg/L		09/17/24 16:21	09/17/24 20:29	1
Nickel	0.0029		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 20:29	1
Vanadium	0.0022	J	0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 20:29	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 20:29	1
Copper	0.0027		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 20:29	1
Zinc	0.0041	J	0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 20:29	1
Manganese	3.8		1.0	0.017	mg/L		09/17/24 16:21	09/18/24 14:50	50
Chromium	<0.00047		0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 20:29	1
Cobalt	<0.00072		0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 20:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	450		25	25	mg/L			09/11/24 10:38	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			09/16/24 16:34	1
Total Organic Carbon (SM 5310 C-2014)	4.8	B	1.0	0.20	mg/L			09/12/24 18:32	1

Client Sample ID: FB

Lab Sample ID: 192-14963-14

Date Collected: 09/10/24 10:55

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			09/17/24 02:32	1
Benzene	<1.5		5.0	1.5	ug/L			09/17/24 02:32	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/17/24 02:32	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/17/24 02:32	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/17/24 02:32	1
Bromoform	<1.3		5.0	1.3	ug/L			09/17/24 02:32	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/17/24 02:32	1
2-Butanone (MEK)	8.6	J	10	3.3	ug/L			09/17/24 02:32	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/17/24 02:32	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/17/24 02:32	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/17/24 02:32	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/17/24 02:32	1
Chloroform	<2.1		4.0	2.1	ug/L			09/17/24 02:32	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/17/24 02:32	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/17/24 02:32	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/17/24 02:32	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/17/24 02:32	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/17/24 02:32	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/17/24 02:32	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/17/24 02:32	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/17/24 02:32	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 02:32	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/17/24 02:32	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/17/24 02:32	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/17/24 02:32	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/17/24 02:32	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: FB

Lab Sample ID: 192-14963-14

Date Collected: 09/10/24 10:55

Matrix: Water

Date Received: 09/10/24 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/17/24 02:32	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/17/24 02:32	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/17/24 02:32	1
Iodomethane	<6.3		10	6.3	ug/L			09/17/24 02:32	1
2-Hexanone	<3.8		10	3.8	ug/L			09/17/24 02:32	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/17/24 02:32	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/17/24 02:32	1
Styrene	<3.0		5.0	3.0	ug/L			09/17/24 02:32	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/17/24 02:32	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/17/24 02:32	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/17/24 02:32	1
Toluene	<3.2		5.0	3.2	ug/L			09/17/24 02:32	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/17/24 02:32	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/17/24 02:32	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/17/24 02:32	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/17/24 02:32	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/17/24 02:32	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 02:32	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/17/24 02:32	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/17/24 02:32	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/17/24 02:32	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/17/24 02:32	1
o-Xylene	<1.8		5.0	1.8	ug/L			09/17/24 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		91 - 109		09/17/24 02:32	1
Toluene-d8 (Surr)	92		87 - 112		09/17/24 02:32	1
4-Bromofluorobenzene (Surr)	91		86 - 112		09/17/24 02:32	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.15		0.20	0.15	mg/L			09/17/24 23:29	1
Sulfate	<0.12		0.20	0.12	mg/L			09/18/24 14:05	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/18/24 08:38	1
Arsenic	<0.00035		0.00050	0.00035	mg/L		09/17/24 16:21	09/18/24 08:38	1
Lead	0.00065		0.00050	0.00021	mg/L		09/17/24 16:21	09/18/24 08:38	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/18/24 08:38	1
Thallium	<0.000045		0.00050	0.000045	mg/L		09/17/24 16:21	09/18/24 08:38	1
Cadmium	<0.000028		0.00050	0.000028	mg/L		09/17/24 16:21	09/18/24 08:38	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		09/17/24 16:21	09/18/24 08:38	1
Barium	0.0019	J	0.0020	0.00026	mg/L		09/17/24 16:21	09/18/24 08:38	1
Iron	0.032	J	0.050	0.014	mg/L		09/17/24 16:21	09/18/24 08:38	1
Nickel	0.0018		0.00050	0.00019	mg/L		09/17/24 16:21	09/18/24 08:38	1
Vanadium	0.0018	J	0.010	0.0016	mg/L		09/17/24 16:21	09/18/24 08:38	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/18/24 08:38	1
Copper	0.0022		0.00050	0.00028	mg/L		09/17/24 16:21	09/18/24 08:38	1
Zinc	0.0063	J	0.010	0.0018	mg/L		09/17/24 16:21	09/18/24 08:38	1

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Client Sample Results

Client: Terracon Consultants Inc
 Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: FB

Lab Sample ID: 192-14963-14

Date Collected: 09/10/24 10:55

Matrix: Water

Date Received: 09/10/24 14:19

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0024	J	0.020	0.00034	mg/L		09/17/24 16:21	09/18/24 08:38	1
Chromium	<0.00047		0.00050	0.00047	mg/L		09/17/24 16:21	09/18/24 08:38	1
Cobalt	<0.00072		0.010	0.00072	mg/L		09/17/24 16:21	09/18/24 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	<25		25	25	mg/L			09/11/24 10:38	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			09/16/24 16:53	1
Total Organic Carbon (SM 5310 C-2014)	0.90	J B	1.0	0.20	mg/L			09/12/24 18:54	1

Surrogate Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DBFM	TOL	BFB
		(91-109)	(87-112)	(86-112)
192-14963-1	MW-1A	102	94	90
192-14963-2	MW-2A	101	92	94
192-14963-3	MW-3A	100	95	90
192-14963-4	MW-4A	104	93	93
192-14963-5	MW-6B	103	91	89
192-14963-6	MW-7A	104	92	92
192-14963-7	GCS-1	102	91	89
192-14963-8	GCS-4	102	91	94
192-14963-9	Equipment Blank	103	92	92
192-14963-10	Trip Blank	103	92	88
192-14963-11	Dup	101	92	90
192-14963-12	C-4 RD DITCH-2	103	93	92
192-14963-13	GCS-4-DITCH	102	93	90
192-14963-14	FB	100	92	91
LCS 192-23119/1012	Lab Control Sample	98	103	104
MB 192-23119/14	Method Blank	102	93	92

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Terracon Consultants Inc
 Project/Site: Groundwater

Job ID: 192-14963-1

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

Lab Sample ID: MB 192-23119/14
Matrix: Water
Analysis Batch: 23119

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<6.3		10	6.3	ug/L			09/16/24 19:35	1
Benzene	<1.5		5.0	1.5	ug/L			09/16/24 19:35	1
Acrylonitrile	<5.6		10	5.6	ug/L			09/16/24 19:35	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			09/16/24 19:35	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			09/16/24 19:35	1
Bromoform	<1.3		5.0	1.3	ug/L			09/16/24 19:35	1
Bromomethane	<2.8		5.0	2.8	ug/L			09/16/24 19:35	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			09/16/24 19:35	1
Carbon disulfide	<5.8		10	5.8	ug/L			09/16/24 19:35	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			09/16/24 19:35	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			09/16/24 19:35	1
Chloroethane	<2.9		5.0	2.9	ug/L			09/16/24 19:35	1
Chloroform	<2.1		4.0	2.1	ug/L			09/16/24 19:35	1
Chloromethane	<2.7		5.0	2.7	ug/L			09/16/24 19:35	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			09/16/24 19:35	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			09/16/24 19:35	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			09/16/24 19:35	1
Dibromomethane	<1.2		5.0	1.2	ug/L			09/16/24 19:35	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			09/16/24 19:35	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			09/16/24 19:35	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			09/16/24 19:35	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 19:35	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			09/16/24 19:35	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			09/16/24 19:35	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			09/16/24 19:35	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			09/16/24 19:35	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			09/16/24 19:35	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			09/16/24 19:35	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			09/16/24 19:35	1
Iodomethane	<6.3		10	6.3	ug/L			09/16/24 19:35	1
2-Hexanone	<3.8		10	3.8	ug/L			09/16/24 19:35	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			09/16/24 19:35	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			09/16/24 19:35	1
Styrene	<3.0		5.0	3.0	ug/L			09/16/24 19:35	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			09/16/24 19:35	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			09/16/24 19:35	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			09/16/24 19:35	1
Toluene	<3.2		5.0	3.2	ug/L			09/16/24 19:35	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			09/16/24 19:35	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			09/16/24 19:35	1
Trichloroethene	<2.0		5.0	2.0	ug/L			09/16/24 19:35	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			09/16/24 19:35	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			09/16/24 19:35	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 19:35	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/16/24 19:35	1
Vinyl acetate	<5.8		10	5.8	ug/L			09/16/24 19:35	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			09/16/24 19:35	1
m,p-Xylenes	<5.9		10	5.9	ug/L			09/16/24 19:35	1

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QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

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

Lab Sample ID: MB 192-23119/14
Matrix: Water
Analysis Batch: 23119

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<1.8		5.0	1.8	ug/L			09/16/24 19:35	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		91 - 109					09/16/24 19:35	1
Toluene-d8 (Surr)	93		87 - 112					09/16/24 19:35	1
4-Bromofluorobenzene (Surr)	92		86 - 112					09/16/24 19:35	1

Lab Sample ID: LCS 192-23119/1012
Matrix: Water
Analysis Batch: 23119

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	101	99.8		ug/L		99	70 - 130
Benzene	49.9	46.3		ug/L		93	70 - 130
Acrylonitrile	252	270		ug/L		107	70 - 130
Bromochloromethane	49.8	47.9		ug/L		96	70 - 130
Bromodichloromethane	50.0	46.8		ug/L		94	70 - 130
Bromoform	49.6	48.4		ug/L		98	70 - 130
Bromomethane	50.7	44.4		ug/L		88	70 - 130
2-Butanone (MEK)	100	108		ug/L		108	70 - 130
Carbon disulfide	101	94.1		ug/L		94	70 - 130
Carbon tetrachloride	50.0	46.1		ug/L		92	70 - 130
Chlorobenzene	50.0	46.6		ug/L		93	70 - 130
Chloroethane	49.7	41.1		ug/L		83	70 - 130
Chloroform	49.8	45.7		ug/L		92	70 - 130
Chloromethane	50.9	41.4		ug/L		81	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.9		ug/L		106	70 - 130
Dibromochloromethane	49.8	43.8		ug/L		88	70 - 130
1,2-Dibromoethane	50.0	49.5		ug/L		99	70 - 130
Dibromomethane	49.8	48.3		ug/L		97	70 - 130
1,2-Dichlorobenzene	50.0	47.6		ug/L		95	70 - 130
1,4-Dichlorobenzene	50.0	47.5		ug/L		95	70 - 130
1,1-Dichloroethane	49.9	45.1		ug/L		90	70 - 130
1,2-Dichloroethane	50.0	45.9		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	46.0		ug/L		92	70 - 130
cis-1,2-Dichloroethene	50.0	48.4		ug/L		97	70 - 130
1,2-Dichloropropane	50.0	46.2		ug/L		92	70 - 130
cis-1,3-Dichloropropene	50.1	48.3		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	48.8		ug/L		98	70 - 130
Ethylbenzene	50.0	49.4		ug/L		99	70 - 130
Iodomethane	101	95.7		ug/L		95	70 - 130
2-Hexanone	101	112		ug/L		112	70 - 130
4-Methyl-2-pentanone	100	104		ug/L		104	70 - 130
Methylene Chloride	49.9	47.0		ug/L		94	70 - 130
Styrene	50.1	51.2		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	50.0	47.5		ug/L		95	70 - 130
1,1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	70 - 130
Tetrachloroethene	50.0	46.4		ug/L		93	70 - 130

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QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

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

Lab Sample ID: LCS 192-23119/1012
Matrix: Water
Analysis Batch: 23119

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	50.0	47.0		ug/L		94	70 - 130
1,1,1-Trichloroethane	50.0	46.1		ug/L		92	70 - 130
1,1,2-Trichloroethane	50.0	48.4		ug/L		97	70 - 130
Trichloroethene	50.0	46.4		ug/L		93	70 - 130
Trichlorofluoromethane	49.8	44.1		ug/L		89	70 - 130
1,2,3-Trichloropropane	50.0	50.6		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	50.0	51.2		ug/L		102	70 - 130
1,3,5-Trimethylbenzene	50.0	50.8		ug/L		102	70 - 130
Vinyl acetate	101	96.6		ug/L		96	70 - 130
Vinyl chloride	50.0	46.1		ug/L		92	70 - 130
m,p-Xylenes	100	99.0		ug/L		99	70 - 130
o-Xylene	50.0	51.0		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	98		91 - 109
Toluene-d8 (Surr)	103		87 - 112
4-Bromofluorobenzene (Surr)	104		86 - 112

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 192-23009/28
Matrix: Water
Analysis Batch: 23009

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.15		0.20	0.15	mg/L			09/13/24 01:04	1
Sulfate	<0.12		0.20	0.12	mg/L			09/13/24 01:04	1

Lab Sample ID: LCS 192-23009/29
Matrix: Water
Analysis Batch: 23009

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	26.7		mg/L		107	90 - 110
Sulfate	25.0	27.4		mg/L		109	90 - 110

Lab Sample ID: 192-14965-A-1 MS
Matrix: Water
Analysis Batch: 23009

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
Chloride	9.2		250	244		mg/L		94	80 - 120
Sulfate	360		250	643	E	mg/L		111	80 - 120

QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 192-14965-A-1 MSD
Matrix: Water
Analysis Batch: 23009

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
Chloride	9.2		250	226		mg/L		87	80 - 120	8	10
Sulfate	360		250	600	E	mg/L		94	80 - 120	7	10

Lab Sample ID: MB 192-23204/10
Matrix: Water
Analysis Batch: 23204

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.15		0.20	0.15	mg/L			09/17/24 21:35	1
Sulfate	<0.12		0.20	0.12	mg/L			09/17/24 21:35	1

Lab Sample ID: LCS 192-23204/11
Matrix: Water
Analysis Batch: 23204

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	24.9		mg/L		100	90 - 110
Sulfate	25.0	25.7		mg/L		103	90 - 110

Lab Sample ID: 192-15150-B-1 MS
Matrix: Water
Analysis Batch: 23204

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
Chloride	82		2500	2430		mg/L		94	80 - 120

Lab Sample ID: 192-15150-B-1 MSD
Matrix: Water
Analysis Batch: 23204

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
Chloride	82		2500	2540		mg/L		98	80 - 120	5	10

Lab Sample ID: MB 192-23220/20
Matrix: Water
Analysis Batch: 23220

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.15		0.20	0.15	mg/L			09/18/24 18:39	1
Sulfate	<0.12		0.20	0.12	mg/L			09/18/24 18:39	1

Lab Sample ID: MB 192-23220/3
Matrix: Water
Analysis Batch: 23220

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.15		0.20	0.15	mg/L			09/18/24 12:11	1
Sulfate	<0.12		0.20	0.12	mg/L			09/18/24 12:11	1

QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 192-23220/21
Matrix: Water
Analysis Batch: 23220

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.9		mg/L		104	90 - 110
Sulfate	25.0	26.6		mg/L		106	90 - 110

Lab Sample ID: LCS 192-23220/4
Matrix: Water
Analysis Batch: 23220

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.9		mg/L		103	90 - 110
Sulfate	25.0	26.4		mg/L		106	90 - 110

Lab Sample ID: 192-15193-A-1 MS
Matrix: Water
Analysis Batch: 23220

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
Chloride	59		2500	2410		mg/L		94	80 - 120
Sulfate	87		2500	2600		mg/L		100	80 - 120

Lab Sample ID: 192-15193-A-1 MSD
Matrix: Water
Analysis Batch: 23220

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
Chloride	59		2500	2450		mg/L		96	80 - 120	1	10
Sulfate	87		2500	2610		mg/L		101	80 - 120	0	10

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 192-23190/1-A
Matrix: Water
Analysis Batch: 23225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		09/17/24 16:21	09/17/24 17:27	1
Arsenic	<0.00035		0.00050	0.00035	mg/L		09/17/24 16:21	09/17/24 17:27	1
Lead	<0.00021		0.00050	0.00021	mg/L		09/17/24 16:21	09/17/24 17:27	1
Selenium	<0.00072		0.0020	0.00072	mg/L		09/17/24 16:21	09/17/24 17:27	1
Thallium	<0.000045		0.00050	0.000045	mg/L		09/17/24 16:21	09/17/24 17:27	1
Cadmium	<0.000028		0.00050	0.000028	mg/L		09/17/24 16:21	09/17/24 17:27	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		09/17/24 16:21	09/17/24 17:27	1
Barium	<0.00026		0.0020	0.00026	mg/L		09/17/24 16:21	09/17/24 17:27	1
Iron	<0.014		0.050	0.014	mg/L		09/17/24 16:21	09/17/24 17:27	1
Nickel	<0.00019		0.00050	0.00019	mg/L		09/17/24 16:21	09/17/24 17:27	1
Vanadium	<0.0016		0.010	0.0016	mg/L		09/17/24 16:21	09/17/24 17:27	1
Silver	<0.000069		0.00050	0.000069	mg/L		09/17/24 16:21	09/17/24 17:27	1
Copper	<0.00028		0.00050	0.00028	mg/L		09/17/24 16:21	09/17/24 17:27	1
Zinc	<0.0018		0.010	0.0018	mg/L		09/17/24 16:21	09/17/24 17:27	1
Manganese	<0.00034		0.020	0.00034	mg/L		09/17/24 16:21	09/17/24 17:27	1
Chromium	<0.00047		0.00050	0.00047	mg/L		09/17/24 16:21	09/17/24 17:27	1

Eurolins Arkansas

QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 192-23190/1-A
Matrix: Water
Analysis Batch: 23225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00072		0.010	0.00072	mg/L		09/17/24 16:21	09/17/24 17:27	1

Lab Sample ID: LCS 192-23190/2-A
Matrix: Water
Analysis Batch: 23225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0200	0.0205		mg/L		103	85 - 115
Arsenic	0.0200	0.0197		mg/L		99	85 - 115
Lead	0.0200	0.0201		mg/L		101	85 - 115
Selenium	0.0200	0.0197		mg/L		98	85 - 115
Thallium	0.0200	0.0201		mg/L		101	85 - 115
Cadmium	0.0200	0.0204		mg/L		102	85 - 115
Beryllium	0.0200	0.0201		mg/L		101	85 - 115
Barium	0.0200	0.0204		mg/L		102	85 - 115
Iron	2.00	2.11		mg/L		105	85 - 115
Nickel	0.0200	0.0212		mg/L		106	85 - 115
Vanadium	0.0200	0.0199		mg/L		99	85 - 115
Silver	0.0200	0.0207		mg/L		103	85 - 115
Copper	0.0200	0.0205		mg/L		103	85 - 115
Zinc	0.0200	0.0201		mg/L		101	85 - 115
Manganese	0.0200	0.0210		mg/L		105	85 - 115
Chromium	0.0200	0.0210		mg/L		105	85 - 115
Cobalt	0.0200	0.0209		mg/L		104	85 - 115

Lab Sample ID: 192-14963-1 MS
Matrix: Water
Analysis Batch: 23225

Client Sample ID: MW-1A
Prep Type: Total/NA
Prep Batch: 23190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0029		0.0200	0.0215		mg/L		107	75 - 125
Arsenic	0.0015		0.0200	0.0231		mg/L		108	75 - 125
Lead	0.00029	J	0.0200	0.0196		mg/L		96	75 - 125
Selenium	<0.00072		0.0200	0.0175		mg/L		88	75 - 125
Thallium	0.000047	J	0.0200	0.0193		mg/L		96	75 - 125
Cadmium	0.000029	J	0.0200	0.0200		mg/L		100	75 - 125
Beryllium	<0.000098		0.0200	0.0191		mg/L		96	75 - 125
Iron	0.22		2.00	2.16		mg/L		97	75 - 125
Nickel	0.0020		0.0200	0.0206		mg/L		93	75 - 125
Vanadium	0.0021	J	0.0200	0.0223		mg/L		101	75 - 125
Silver	<0.000069		0.0200	0.0197		mg/L		99	75 - 125
Copper	0.0021		0.0200	0.0200		mg/L		90	75 - 125
Zinc	0.0057	J	0.0200	0.0211		mg/L		77	75 - 125
Chromium	<0.00047		0.0200	0.0210		mg/L		105	75 - 125
Cobalt	<0.00072		0.0200	0.0194		mg/L		97	75 - 125

QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 192-14963-1 MS
Matrix: Water
Analysis Batch: 23225

Client Sample ID: MW-1A
Prep Type: Total/NA
Prep Batch: 23190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.015		0.0200	0.0213	J	mg/L		106	75 - 125
Arsenic	<0.0018		0.0200	0.0224		mg/L		112	75 - 125
Lead	<0.0011		0.0200	0.0195		mg/L		97	75 - 125
Selenium	<0.0036		0.0200	0.0189		mg/L		95	75 - 125
Thallium	<0.00023		0.0200	0.0191		mg/L		95	75 - 125
Cadmium	<0.00014		0.0200	0.0206		mg/L		103	75 - 125
Beryllium	<0.00049		0.0200	0.0200		mg/L		100	75 - 125
Barium	0.11		0.0200	0.128	4	mg/L		95	75 - 125
Iron	0.22	J	2.00	2.27		mg/L		102	75 - 125
Nickel	0.0019	J	0.0200	0.0218		mg/L		99	75 - 125
Vanadium	<0.0080		0.0200	0.0232	J	mg/L		116	75 - 125
Silver	<0.00035		0.0200	0.0201		mg/L		101	75 - 125
Copper	0.0020	J	0.0200	0.0211		mg/L		95	75 - 125
Zinc	<0.0090		0.0200	0.0205	J	mg/L		102	75 - 125
Manganese	0.12		0.0200	0.130	4	mg/L		55	75 - 125
Chromium	<0.0024		0.0200	0.0218		mg/L		109	75 - 125
Cobalt	<0.0036		0.0200	0.0205	J	mg/L		103	75 - 125

Lab Sample ID: 192-14963-1 MSD
Matrix: Water
Analysis Batch: 23225

Client Sample ID: MW-1A
Prep Type: Total/NA
Prep Batch: 23190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0029		0.0200	0.0214		mg/L		107	75 - 125	0	20
Arsenic	0.0015		0.0200	0.0227		mg/L		106	75 - 125	2	20
Lead	0.00029	J	0.0200	0.0194		mg/L		95	75 - 125	1	20
Selenium	<0.00072		0.0200	0.0167		mg/L		83	75 - 125	5	20
Thallium	0.000047	J	0.0200	0.0192		mg/L		96	75 - 125	1	20
Cadmium	0.000029	J	0.0200	0.0199		mg/L		100	75 - 125	0	20
Beryllium	<0.000098		0.0200	0.0192		mg/L		96	75 - 125	0	20
Iron	0.22		2.00	2.14		mg/L		96	75 - 125	1	20
Nickel	0.0020		0.0200	0.0203		mg/L		91	75 - 125	2	20
Vanadium	0.0021	J	0.0200	0.0214		mg/L		97	75 - 125	4	20
Silver	<0.000069		0.0200	0.0198		mg/L		99	75 - 125	1	20
Copper	0.0021		0.0200	0.0194		mg/L		86	75 - 125	3	20
Zinc	0.0057	J	0.0200	0.0195		mg/L		69	75 - 125	7	20
Chromium	<0.00047		0.0200	0.0206		mg/L		103	75 - 125	2	20
Cobalt	<0.00072		0.0200	0.0193		mg/L		97	75 - 125	0	20

Lab Sample ID: 192-14963-1 MSD
Matrix: Water
Analysis Batch: 23225

Client Sample ID: MW-1A
Prep Type: Total/NA
Prep Batch: 23190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.015		0.0200	0.0213	J	mg/L		106	75 - 125	0	20
Arsenic	<0.0018		0.0200	0.0233		mg/L		117	75 - 125	4	20
Lead	<0.0011		0.0200	0.0197		mg/L		98	75 - 125	1	20
Selenium	<0.0036		0.0200	0.0181		mg/L		91	75 - 125	4	20
Thallium	<0.00023		0.0200	0.0195		mg/L		98	75 - 125	2	20

Eurolins Arkansas

QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 192-14963-1 MSD
Matrix: Water
Analysis Batch: 23225

Client Sample ID: MW-1A
Prep Type: Total/NA
Prep Batch: 23190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cadmium	<0.00014		0.0200	0.0207		mg/L		104	75 - 125	0	20
Beryllium	<0.00049		0.0200	0.0204		mg/L		102	75 - 125	2	20
Barium	0.11		0.0200	0.130	4	mg/L		105	75 - 125	2	20
Iron	0.22	J	2.00	2.23		mg/L		101	75 - 125	2	20
Nickel	0.0019	J	0.0200	0.0211		mg/L		96	75 - 125	3	20
Vanadium	<0.0080		0.0200	0.0234	J	mg/L		117	75 - 125	1	20
Silver	<0.00035		0.0200	0.0201		mg/L		100	75 - 125	0	20
Copper	0.0020	J	0.0200	0.0204		mg/L		92	75 - 125	3	20
Zinc	<0.0090		0.0200	0.0199	J	mg/L		100	75 - 125	3	20
Manganese	0.12		0.0200	0.128	4	mg/L		44	75 - 125	2	20
Chromium	<0.0024		0.0200	0.0215		mg/L		108	75 - 125	1	20
Cobalt	<0.0036		0.0200	0.0202	J	mg/L		101	75 - 125	1	20

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 192-22910/1
Matrix: Water
Analysis Batch: 22910

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	<25		25	25	mg/L			09/11/24 10:38	1

Lab Sample ID: LCS 192-22910/2
Matrix: Water
Analysis Batch: 22910

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	2000	2030		mg/L		102	85 - 115

Lab Sample ID: 192-14957-A-2 DU
Matrix: Water
Analysis Batch: 22910

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	1200		1170		mg/L		4	10

Method: 4500 S2 G-2011 - Sulfide, Total

Lab Sample ID: MB 192-23133/6
Matrix: Water
Analysis Batch: 23133

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.0049		0.025	0.0049	mg/L			09/16/24 16:31	1

QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Method: 4500 S2 G-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCS 192-23133/7
Matrix: Water
Analysis Batch: 23133

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.100	0.106		mg/L		106	87 - 125

Lab Sample ID: 192-14957-C-1 MS
Matrix: Water
Analysis Batch: 23133

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
Sulfide	<0.0049		0.100	0.107		mg/L		107	86 - 132

Lab Sample ID: 192-14957-C-1 MSD
Matrix: Water
Analysis Batch: 23133

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
Sulfide	<0.0049		0.100	0.109		mg/L		109	86 - 132	2	10

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 192-23036/4
Matrix: Water
Analysis Batch: 23036

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	0.314	J	1.0	0.20	mg/L			09/12/24 12:28	1

Lab Sample ID: LCS 192-23036/5
Matrix: Water
Analysis Batch: 23036

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	10.0	9.51		mg/L		95	80 - 120

Lab Sample ID: 192-14963-1 MS
Matrix: Water
Analysis Batch: 23036

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.3	B	10.0	11.9		mg/L		106	80 - 120

Lab Sample ID: 192-14963-1 MSD
Matrix: Water
Analysis Batch: 23036

Client Sample ID: MW-1A
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	1.3	B	10.0	12.0		mg/L		107	80 - 120	1	25

QC Association Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

GC/MS VOA

Analysis Batch: 23119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-1	MW-1A	Total/NA	Water	8260D	
192-14963-2	MW-2A	Total/NA	Water	8260D	
192-14963-3	MW-3A	Total/NA	Water	8260D	
192-14963-4	MW-4A	Total/NA	Water	8260D	
192-14963-5	MW-6B	Total/NA	Water	8260D	
192-14963-6	MW-7A	Total/NA	Water	8260D	
192-14963-7	GCS-1	Total/NA	Water	8260D	
192-14963-8	GCS-4	Total/NA	Water	8260D	
192-14963-9	Equipment Blank	Total/NA	Water	8260D	
192-14963-10	Trip Blank	Total/NA	Water	8260D	
192-14963-11	Dup	Total/NA	Water	8260D	
192-14963-12	C-4 RD DITCH-2	Total/NA	Water	8260D	
192-14963-13	GCS-4-DITCH	Total/NA	Water	8260D	
192-14963-14	FB	Total/NA	Water	8260D	
MB 192-23119/14	Method Blank	Total/NA	Water	8260D	
LCS 192-23119/1012	Lab Control Sample	Total/NA	Water	8260D	

HPLC/IC

Analysis Batch: 23009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-1	MW-1A	Total/NA	Water	9056A	
192-14963-2	MW-2A	Total/NA	Water	9056A	
192-14963-3	MW-3A	Total/NA	Water	9056A	
192-14963-4	MW-4A	Total/NA	Water	9056A	
192-14963-5	MW-6B	Total/NA	Water	9056A	
192-14963-6	MW-7A	Total/NA	Water	9056A	
192-14963-8	GCS-4	Total/NA	Water	9056A	
192-14963-13	GCS-4-DITCH	Total/NA	Water	9056A	
MB 192-23009/28	Method Blank	Total/NA	Water	9056A	
LCS 192-23009/29	Lab Control Sample	Total/NA	Water	9056A	
192-14965-A-1 MS	Matrix Spike	Total/NA	Water	9056A	
192-14965-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	

Analysis Batch: 23204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-7	GCS-1	Total/NA	Water	9056A	
192-14963-11	Dup	Total/NA	Water	9056A	
192-14963-12	C-4 RD DITCH-2	Total/NA	Water	9056A	
192-14963-14	FB	Total/NA	Water	9056A	
MB 192-23204/10	Method Blank	Total/NA	Water	9056A	
LCS 192-23204/11	Lab Control Sample	Total/NA	Water	9056A	
192-15150-B-1 MS	Matrix Spike	Total/NA	Water	9056A	
192-15150-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	

Analysis Batch: 23220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-7	GCS-1	Total/NA	Water	9056A	
192-14963-11	Dup	Total/NA	Water	9056A	
192-14963-12	C-4 RD DITCH-2	Total/NA	Water	9056A	
192-14963-14	FB	Total/NA	Water	9056A	

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QC Association Summary

Client: Terracon Consultants Inc
 Project/Site: Groundwater

Job ID: 192-14963-1

HPLC/IC (Continued)

Analysis Batch: 23220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 192-23220/20	Method Blank	Total/NA	Water	9056A	
MB 192-23220/3	Method Blank	Total/NA	Water	9056A	
LCS 192-23220/21	Lab Control Sample	Total/NA	Water	9056A	
LCS 192-23220/4	Lab Control Sample	Total/NA	Water	9056A	
192-15193-A-1 MS	Matrix Spike	Total/NA	Water	9056A	
192-15193-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	

Metals

Prep Batch: 23190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-1	MW-1A	Total/NA	Water	3010A	
192-14963-2	MW-2A	Total/NA	Water	3010A	
192-14963-3	MW-3A	Total/NA	Water	3010A	
192-14963-4	MW-4A	Total/NA	Water	3010A	
192-14963-5	MW-6B	Total/NA	Water	3010A	
192-14963-6	MW-7A	Total/NA	Water	3010A	
192-14963-7	GCS-1	Total/NA	Water	3010A	
192-14963-8	GCS-4	Total/NA	Water	3010A	
192-14963-11	Dup	Total/NA	Water	3010A	
192-14963-12	C-4 RD DITCH-2	Total/NA	Water	3010A	
192-14963-13	GCS-4-DITCH	Total/NA	Water	3010A	
192-14963-14	FB	Total/NA	Water	3010A	
MB 192-23190/1-A	Method Blank	Total/NA	Water	3010A	
LCS 192-23190/2-A	Lab Control Sample	Total/NA	Water	3010A	
192-14963-1 MS	MW-1A	Total/NA	Water	3010A	
192-14963-1 MSD	MW-1A	Total/NA	Water	3010A	

Analysis Batch: 23225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-1	MW-1A	Total/NA	Water	6020B	23190
192-14963-1	MW-1A	Total/NA	Water	6020B	23190
192-14963-2	MW-2A	Total/NA	Water	6020B	23190
192-14963-3	MW-3A	Total/NA	Water	6020B	23190
192-14963-4	MW-4A	Total/NA	Water	6020B	23190
192-14963-5	MW-6B	Total/NA	Water	6020B	23190
192-14963-6	MW-7A	Total/NA	Water	6020B	23190
192-14963-7	GCS-1	Total/NA	Water	6020B	23190
192-14963-8	GCS-4	Total/NA	Water	6020B	23190
192-14963-11	Dup	Total/NA	Water	6020B	23190
192-14963-12	C-4 RD DITCH-2	Total/NA	Water	6020B	23190
192-14963-13	GCS-4-DITCH	Total/NA	Water	6020B	23190
192-14963-14	FB	Total/NA	Water	6020B	23190
MB 192-23190/1-A	Method Blank	Total/NA	Water	6020B	23190
LCS 192-23190/2-A	Lab Control Sample	Total/NA	Water	6020B	23190
192-14963-1 MS	MW-1A	Total/NA	Water	6020B	23190
192-14963-1 MS	MW-1A	Total/NA	Water	6020B	23190
192-14963-1 MSD	MW-1A	Total/NA	Water	6020B	23190
192-14963-1 MSD	MW-1A	Total/NA	Water	6020B	23190

QC Association Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Metals

Analysis Batch: 23226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-6	MW-7A	Total/NA	Water	6020B	23190

Analysis Batch: 23254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-2	MW-2A	Total/NA	Water	6020B	23190
192-14963-3	MW-3A	Total/NA	Water	6020B	23190
192-14963-4	MW-4A	Total/NA	Water	6020B	23190
192-14963-5	MW-6B	Total/NA	Water	6020B	23190
192-14963-5	MW-6B	Total/NA	Water	6020B	23190
192-14963-6	MW-7A	Total/NA	Water	6020B	23190
192-14963-6	MW-7A	Total/NA	Water	6020B	23190
192-14963-7	GCS-1	Total/NA	Water	6020B	23190
192-14963-7	GCS-1	Total/NA	Water	6020B	23190
192-14963-8	GCS-4	Total/NA	Water	6020B	23190
192-14963-8	GCS-4	Total/NA	Water	6020B	23190
192-14963-11	Dup	Total/NA	Water	6020B	23190
192-14963-12	C-4 RD DITCH-2	Total/NA	Water	6020B	23190
192-14963-12	C-4 RD DITCH-2	Total/NA	Water	6020B	23190
192-14963-13	GCS-4-DITCH	Total/NA	Water	6020B	23190
192-14963-13	GCS-4-DITCH	Total/NA	Water	6020B	23190

General Chemistry

Analysis Batch: 22910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-1	MW-1A	Total/NA	Water	2540C - 2015	
192-14963-2	MW-2A	Total/NA	Water	2540C - 2015	
192-14963-3	MW-3A	Total/NA	Water	2540C - 2015	
192-14963-4	MW-4A	Total/NA	Water	2540C - 2015	
192-14963-5	MW-6B	Total/NA	Water	2540C - 2015	
192-14963-6	MW-7A	Total/NA	Water	2540C - 2015	
192-14963-7	GCS-1	Total/NA	Water	2540C - 2015	
192-14963-8	GCS-4	Total/NA	Water	2540C - 2015	
192-14963-11	Dup	Total/NA	Water	2540C - 2015	
192-14963-12	C-4 RD DITCH-2	Total/NA	Water	2540C - 2015	
192-14963-13	GCS-4-DITCH	Total/NA	Water	2540C - 2015	
192-14963-14	FB	Total/NA	Water	2540C - 2015	
MB 192-22910/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 192-22910/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
192-14957-A-2 DU	Duplicate	Total/NA	Water	2540C - 2015	

Analysis Batch: 23036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-1	MW-1A	Total/NA	Water	5310 C-2014	
192-14963-2	MW-2A	Total/NA	Water	5310 C-2014	
192-14963-3	MW-3A	Total/NA	Water	5310 C-2014	
192-14963-4	MW-4A	Total/NA	Water	5310 C-2014	
192-14963-5	MW-6B	Total/NA	Water	5310 C-2014	
192-14963-6	MW-7A	Total/NA	Water	5310 C-2014	
192-14963-7	GCS-1	Total/NA	Water	5310 C-2014	
192-14963-8	GCS-4	Total/NA	Water	5310 C-2014	

Eurofins Arkansas

QC Association Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

General Chemistry (Continued)

Analysis Batch: 23036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-11	Dup	Total/NA	Water	5310 C-2014	
192-14963-12	C-4 RD DITCH-2	Total/NA	Water	5310 C-2014	
192-14963-13	GCS-4-DITCH	Total/NA	Water	5310 C-2014	
192-14963-14	FB	Total/NA	Water	5310 C-2014	
MB 192-23036/4	Method Blank	Total/NA	Water	5310 C-2014	
LCS 192-23036/5	Lab Control Sample	Total/NA	Water	5310 C-2014	
192-14963-1 MS	MW-1A	Total/NA	Water	5310 C-2014	
192-14963-1 MSD	MW-1A	Total/NA	Water	5310 C-2014	

Analysis Batch: 23133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-14963-1	MW-1A	Total/NA	Water	4500 S2 G-2011	
192-14963-2	MW-2A	Total/NA	Water	4500 S2 G-2011	
192-14963-3	MW-3A	Total/NA	Water	4500 S2 G-2011	
192-14963-4	MW-4A	Total/NA	Water	4500 S2 G-2011	
192-14963-5	MW-6B	Total/NA	Water	4500 S2 G-2011	
192-14963-6	MW-7A	Total/NA	Water	4500 S2 G-2011	
192-14963-7	GCS-1	Total/NA	Water	4500 S2 G-2011	
192-14963-8	GCS-4	Total/NA	Water	4500 S2 G-2011	
192-14963-11	Dup	Total/NA	Water	4500 S2 G-2011	
192-14963-12	C-4 RD DITCH-2	Total/NA	Water	4500 S2 G-2011	
192-14963-13	GCS-4-DITCH	Total/NA	Water	4500 S2 G-2011	
192-14963-14	FB	Total/NA	Water	4500 S2 G-2011	
MB 192-23133/6	Method Blank	Total/NA	Water	4500 S2 G-2011	
LCS 192-23133/7	Lab Control Sample	Total/NA	Water	4500 S2 G-2011	
192-14957-C-1 MS	Matrix Spike	Total/NA	Water	4500 S2 G-2011	
192-14957-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 G-2011	

Lab Chronicle

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-1A
Date Collected: 09/10/24 09:14
Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/16/24 23:33
Total/NA	Analysis	9056A		10	23009	LC5	EET ARK	09/13/24 05:38
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/17/24 17:40
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		5	23225	JEP	EET ARK	09/17/24 18:21
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:31
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 13:13

Client Sample ID: MW-2A
Date Collected: 09/09/24 11:37
Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/16/24 20:05
Total/NA	Analysis	9056A		10	23009	LC5	EET ARK	09/13/24 06:01
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/17/24 19:53
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		5	23254	JEP	EET ARK	09/18/24 14:15
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:31
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 14:21

Client Sample ID: MW-3A
Date Collected: 09/09/24 12:37
Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/16/24 20:35
Total/NA	Analysis	9056A		10	23009	LC5	EET ARK	09/13/24 06:24
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/17/24 19:57
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		10	23254	JEP	EET ARK	09/18/24 14:19
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:31
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 14:44

Lab Chronicle

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-4A

Date Collected: 09/09/24 14:34

Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/16/24 21:04
Total/NA	Analysis	9056A		10	23009	LC5	EET ARK	09/13/24 06:47
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/17/24 20:01
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		10	23254	JEP	EET ARK	09/18/24 14:23
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:31
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 15:07

Client Sample ID: MW-6B

Date Collected: 09/10/24 10:25

Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/17/24 00:03
Total/NA	Analysis	9056A		10	23009	LC5	EET ARK	09/13/24 07:09
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/17/24 20:05
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		100	23254	JEP	EET ARK	09/18/24 14:27
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		10	23254	JEP	EET ARK	09/18/24 15:10
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:31
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 15:30

Client Sample ID: MW-7A

Date Collected: 09/10/24 09:47

Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/17/24 00:33
Total/NA	Analysis	9056A		10	23009	LC5	EET ARK	09/13/24 08:18
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/17/24 20:09
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23226	JEP	EET ARK	09/17/24 20:09
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		100	23254	JEP	EET ARK	09/18/24 14:31
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		10	23254	JEP	EET ARK	09/18/24 15:13
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38

Lab Chronicle

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: MW-7A
Date Collected: 09/10/24 09:47
Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:31
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 15:52

Client Sample ID: GCS-1
Date Collected: 09/10/24 07:50
Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/17/24 01:03
Total/NA	Analysis	9056A		1	23204	LC5	EET ARK	09/17/24 22:21
Total/NA	Analysis	9056A		1	23220	LC5	EET ARK	09/18/24 12:57
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/17/24 20:13
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		100	23254	JEP	EET ARK	09/18/24 14:35
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		10	23254	JEP	EET ARK	09/18/24 15:17
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:31
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 17:01

Client Sample ID: GCS-4
Date Collected: 09/09/24 10:05
Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/16/24 21:34
Total/NA	Analysis	9056A		10	23009	LC5	EET ARK	09/13/24 09:03
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/17/24 20:17
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		50	23254	JEP	EET ARK	09/18/24 14:39
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		10	23254	JEP	EET ARK	09/18/24 15:21
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:31
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 17:24

Client Sample ID: Equipment Blank
Date Collected: 09/09/24 11:00
Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/16/24 22:04

Eurofins Arkansas

Lab Chronicle

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: Trip Blank

Date Collected: 09/10/24 00:00

Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/17/24 01:33

Client Sample ID: Dup

Date Collected: 09/09/24 14:45

Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/16/24 22:34
Total/NA	Analysis	9056A		1	23204	LC5	EET ARK	09/17/24 22:44
Total/NA	Analysis	9056A		1	23220	LC5	EET ARK	09/18/24 13:19
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/17/24 20:21
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		5	23254	JEP	EET ARK	09/18/24 14:42
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:31
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 17:46

Client Sample ID: C-4 RD DITCH-2

Date Collected: 09/10/24 08:05

Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/17/24 02:02
Total/NA	Analysis	9056A		1	23204	LC5	EET ARK	09/17/24 23:07
Total/NA	Analysis	9056A		1	23220	LC5	EET ARK	09/18/24 13:42
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/17/24 20:25
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		100	23254	JEP	EET ARK	09/18/24 14:46
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		10	23254	JEP	EET ARK	09/18/24 15:29
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:31
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 18:09

Client Sample ID: GCS-4-DITCH

Date Collected: 09/09/24 10:15

Date Received: 09/10/24 14:19

Lab Sample ID: 192-14963-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/16/24 23:03
Total/NA	Analysis	9056A		10	23009	LC5	EET ARK	09/13/24 10:12

Lab Chronicle

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Client Sample ID: GCS-4-DITCH

Lab Sample ID: 192-14963-13

Date Collected: 09/09/24 10:15

Matrix: Water

Date Received: 09/10/24 14:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/17/24 20:29
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		50	23254	JEP	EET ARK	09/18/24 14:50
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		5	23254	JEP	EET ARK	09/18/24 15:33
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:34
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 18:32

Client Sample ID: FB

Lab Sample ID: 192-14963-14

Date Collected: 09/10/24 10:55

Matrix: Water

Date Received: 09/10/24 14:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	23119	LC5	EET ARK	09/17/24 02:32
Total/NA	Analysis	9056A		1	23204	LC5	EET ARK	09/17/24 23:29
Total/NA	Analysis	9056A		1	23220	LC5	EET ARK	09/18/24 14:05
Total/NA	Prep	3010A			23190	JEP	EET ARK	09/17/24 16:21
Total/NA	Analysis	6020B		1	23225	JEP	EET ARK	09/18/24 08:38
Total/NA	Analysis	2540C - 2015		1	22910	FOR	EET ARK	09/11/24 10:38
Total/NA	Analysis	4500 S2 G-2011		1	23133	HS	EET ARK	09/16/24 16:53
Total/NA	Analysis	5310 C-2014		1	23036	HS	EET ARK	09/12/24 18:54

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Accreditation/Certification Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Laboratory: Eurofins Arkansas

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	60-0889	03-02-25

- 1
- 2
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Method Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET ARK
9056A	Anions, Ion Chromatography	SW846	EET ARK
6020B	Metals (ICP/MS)	SW846	EET ARK
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	EET ARK
4500 S2 G-2011	Sulfide, Total	SM	EET ARK
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	EET ARK
3010A	Preparation, Total Metals	SW846	EET ARK
5030C	Purge and Trap	SW846	EET ARK

Protocol References:

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:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Sample Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater

Job ID: 192-14963-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
192-14963-1	MW-1A	Water	09/10/24 09:14	09/10/24 14:19
192-14963-2	MW-2A	Water	09/09/24 11:37	09/10/24 14:19
192-14963-3	MW-3A	Water	09/09/24 12:37	09/10/24 14:19
192-14963-4	MW-4A	Water	09/09/24 14:34	09/10/24 14:19
192-14963-5	MW-6B	Water	09/10/24 10:25	09/10/24 14:19
192-14963-6	MW-7A	Water	09/10/24 09:47	09/10/24 14:19
192-14963-7	GCS-1	Water	09/10/24 07:50	09/10/24 14:19
192-14963-8	GCS-4	Water	09/09/24 10:05	09/10/24 14:19
192-14963-9	Equipment Blank	Water	09/09/24 11:00	09/10/24 14:19
192-14963-10	Trip Blank	Water	09/10/24 00:00	09/10/24 14:19
192-14963-11	Dup	Water	09/09/24 14:45	09/10/24 14:19
192-14963-12	C-4 RD DITCH-2	Water	09/10/24 08:05	09/10/24 14:19
192-14963-13	GCS-4-DITCH	Water	09/09/24 10:15	09/10/24 14:19
192-14963-14	FB	Water	09/10/24 10:55	09/10/24 14:19

- 1
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Login Sample Receipt Checklist

Client: Terracon Consultants Inc

Job Number: 192-14963-1

Login Number: 14963

List Source: Eurofins Arkansas

List Number: 1

Creator: Hansen, Lauren K

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	False	Received extra samples not listed on COC.
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client Sample Results

Client: City of Little Rock
Project/Site: Groundwater

Job ID: 192-4357-1

Client Sample ID: MW-6B

Lab Sample ID: 192-4357-5

Date Collected: 08/11/23 11:50

Matrix: Water

Date Received: 08/11/23 15:50

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		0.20	0.15	mg/L			08/18/23 16:36	1
Sulfate	36		0.20	0.12	mg/L			08/18/23 16:36	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		08/17/23 09:04	08/17/23 16:14	1
Arsenic	0.0071		0.00050	0.00035	mg/L		08/17/23 09:04	08/17/23 16:14	1
Barium	0.11		0.010	0.0013	mg/L		08/17/23 09:04	08/22/23 11:59	5
Beryllium	0.00014	J	0.00050	0.000098	mg/L		08/17/23 09:04	08/17/23 16:14	1
Cadmium	0.00015	J	0.00050	0.000028	mg/L		08/17/23 09:04	08/17/23 16:14	1
Chromium	<0.00047		0.00050	0.00047	mg/L		08/17/23 09:04	08/17/23 16:14	1
Cobalt	0.0046	J	0.010	0.00072	mg/L		08/17/23 09:04	08/17/23 16:14	1
Copper	0.024		0.00050	0.00028	mg/L		08/17/23 09:04	08/17/23 16:14	1
Lead	0.00061		0.00050	0.00021	mg/L		08/17/23 09:04	08/17/23 16:14	1
Nickel	0.0061		0.00050	0.00019	mg/L		08/17/23 09:04	08/17/23 16:14	1
Selenium	<0.00072		0.0020	0.00072	mg/L		08/17/23 09:04	08/17/23 16:14	1
Silver	<0.000069		0.00050	0.000069	mg/L		08/17/23 09:04	08/17/23 16:14	1
Thallium	<0.000045		0.00050	0.000045	mg/L		08/17/23 09:04	08/17/23 16:14	1
Vanadium	0.018		0.010	0.0016	mg/L		08/17/23 09:04	08/17/23 16:14	1
Zinc	0.089		0.010	0.0018	mg/L		08/17/23 09:04	08/17/23 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	220		25	25	mg/L			08/16/23 15:26	1
Total Organic Carbon (SM 5310C)	11		1.0	0.50	mg/L			08/22/23 20:47	1

Client Sample ID: Leachate

Lab Sample ID: 192-4357-6

Date Collected: 08/11/23 14:25

Matrix: Water

Date Received: 08/11/23 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			08/16/23 04:40	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			08/16/23 04:40	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			08/16/23 04:40	1
Bromoform	<1.3		5.0	1.3	ug/L			08/16/23 04:40	1
Carbon disulfide	<5.8		10	5.8	ug/L			08/16/23 04:40	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			08/16/23 04:40	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			08/16/23 04:40	1
Chloroethane	<2.9		5.0	2.9	ug/L			08/16/23 04:40	1
Chloroform	<2.1		4.0	2.1	ug/L			08/16/23 04:40	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			08/16/23 04:40	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			08/16/23 04:40	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			08/16/23 04:40	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			08/16/23 04:40	1
1,4-Dichlorobenzene	2.7	J	5.0	1.4	ug/L			08/16/23 04:40	1
trans-1,4-Dichloro-2-butene	<2.9		10	2.9	ug/L			08/16/23 04:40	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			08/16/23 04:40	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			08/16/23 04:40	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			08/16/23 04:40	1

Eurolins Arkansas

Client Sample Results

Client: City of Little Rock
Project/Site: Groundwater

Job ID: 192-4357-1

Client Sample ID: Leachate

Lab Sample ID: 192-4357-6

Date Collected: 08/11/23 14:25

Matrix: Water

Date Received: 08/11/23 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			08/16/23 04:40	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			08/16/23 04:40	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			08/16/23 04:40	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			08/16/23 04:40	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			08/16/23 04:40	1
Ethylbenzene	2.9	J	5.0	2.0	ug/L			08/16/23 04:40	1
2-Hexanone	<3.8		10	3.8	ug/L			08/16/23 04:40	1
Bromomethane	<2.8		5.0	2.8	ug/L			08/16/23 04:40	1
Chloromethane	<2.7		5.0	2.7	ug/L			08/16/23 04:40	1
Dibromomethane	<1.2		5.0	1.2	ug/L			08/16/23 04:40	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			08/16/23 04:40	1
2-Butanone (MEK)	6.2	J	10	3.3	ug/L			08/16/23 04:40	1
Iodomethane	<6.3		10	6.3	ug/L			08/16/23 04:40	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			08/16/23 04:40	1
Styrene	<3.0		5.0	3.0	ug/L			08/16/23 04:40	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			08/16/23 04:40	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			08/16/23 04:40	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			08/16/23 04:40	1
Toluene	4.1	J	5.0	3.2	ug/L			08/16/23 04:40	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			08/16/23 04:40	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			08/16/23 04:40	1
Trichloroethene	<2.0		5.0	2.0	ug/L			08/16/23 04:40	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			08/16/23 04:40	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			08/16/23 04:40	1
Vinyl acetate	<5.8		10	5.8	ug/L			08/16/23 04:40	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			08/16/23 04:40	1
Xylenes, Total	13		10	5.9	ug/L			08/16/23 04:40	1
Acrylonitrile	<5.6		10	5.6	ug/L			08/16/23 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		91 - 109		08/16/23 04:40	1
Toluene-d8 (Surr)	98		87 - 112		08/16/23 04:40	1
4-Bromofluorobenzene (Surr)	97		86 - 112		08/16/23 04:40	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430		2.0	1.5	mg/L			08/18/23 06:02	10
Sulfate	4.9		0.20	0.12	mg/L			08/18/23 16:57	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.015		0.050	0.015	mg/L		08/17/23 09:04	08/17/23 16:17	5
Arsenic	0.053		0.0025	0.0018	mg/L		08/17/23 09:04	08/17/23 16:17	5
Barium	0.26		0.010	0.0013	mg/L		08/17/23 09:04	08/17/23 16:17	5
Beryllium	<0.00049		0.0025	0.00049	mg/L		08/17/23 09:04	08/17/23 16:17	5
Cadmium	<0.00014		0.0025	0.00014	mg/L		08/17/23 09:04	08/17/23 16:17	5
Chromium	0.016		0.0025	0.0024	mg/L		08/17/23 09:04	08/17/23 16:17	5
Cobalt	0.0075	J	0.050	0.0036	mg/L		08/17/23 09:04	08/17/23 16:17	5
Copper	<0.0014		0.0025	0.0014	mg/L		08/17/23 09:04	08/17/23 16:17	5
Lead	<0.0011		0.0025	0.0011	mg/L		08/17/23 09:04	08/17/23 16:17	5

Eurolins Arkansas

Client Sample Results

Client: City of Little Rock
Project/Site: Groundwater

Job ID: 192-4357-1

Client Sample ID: Leachate

Lab Sample ID: 192-4357-6

Date Collected: 08/11/23 14:25

Matrix: Water

Date Received: 08/11/23 15:50

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.035		0.0025	0.00095	mg/L		08/17/23 09:04	08/17/23 16:17	5
Selenium	<0.0036		0.010	0.0036	mg/L		08/17/23 09:04	08/17/23 16:17	5
Silver	<0.00035		0.0025	0.00035	mg/L		08/17/23 09:04	08/17/23 16:17	5
Thallium	<0.00023		0.0025	0.00023	mg/L		08/17/23 09:04	08/17/23 16:17	5
Vanadium	<0.0080		0.050	0.0080	mg/L		08/17/23 09:04	08/17/23 16:17	5
Zinc	<0.0090		0.050	0.0090	mg/L		08/17/23 09:04	08/17/23 16:17	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	2100		50	50	mg/L			08/16/23 15:26	1
Total Organic Carbon (SM 5310C)	91		10	5.0	mg/L			08/24/23 01:47	10

Client Sample ID: DUP

Lab Sample ID: 192-4357-7

Date Collected: 08/11/23 11:10

Matrix: Water

Date Received: 08/11/23 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		10	6.3	ug/L			08/16/23 05:10	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			08/16/23 05:10	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			08/16/23 05:10	1
Bromoform	<1.3		5.0	1.3	ug/L			08/16/23 05:10	1
Carbon disulfide	<5.8		10	5.8	ug/L			08/16/23 05:10	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			08/16/23 05:10	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			08/16/23 05:10	1
Chloroethane	<2.9		5.0	2.9	ug/L			08/16/23 05:10	1
Chloroform	<2.1		4.0	2.1	ug/L			08/16/23 05:10	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			08/16/23 05:10	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			08/16/23 05:10	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			08/16/23 05:10	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			08/16/23 05:10	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			08/16/23 05:10	1
trans-1,4-Dichloro-2-butene	<2.9		10	2.9	ug/L			08/16/23 05:10	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			08/16/23 05:10	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			08/16/23 05:10	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			08/16/23 05:10	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			08/16/23 05:10	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			08/16/23 05:10	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			08/16/23 05:10	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			08/16/23 05:10	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			08/16/23 05:10	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			08/16/23 05:10	1
2-Hexanone	<3.8		10	3.8	ug/L			08/16/23 05:10	1
Bromomethane	<2.8		5.0	2.8	ug/L			08/16/23 05:10	1
Chloromethane	<2.7		5.0	2.7	ug/L			08/16/23 05:10	1
Dibromomethane	<1.2		5.0	1.2	ug/L			08/16/23 05:10	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			08/16/23 05:10	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			08/16/23 05:10	1
Iodomethane	<6.3		10	6.3	ug/L			08/16/23 05:10	1

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