

Haley Griffith (adpce.ad)

From: Steve Bradford <TALS@reports.et.eurofinsus.com>
Sent: Tuesday, September 3, 2024 9:16 AM
To: ADEQ
Subject: Eurofins Environment Testing South Central, LLC report files from 192-10523-1 Groundwater - Landfill
Attachments: J10523-1 UDS Level 2 Report Final Report.pdf

Hello,

Attached please find the report files for job 192-10523-1; Groundwater - Landfill

The samples were received on 3/20/2024 03:55 PM.

Please feel free to contact me if you have any questions.

Thank you.

Steve Bradford
Laboratory Director

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Reference: [192-028596]
Attachments: 1

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. David Jaros
Terracon Consultants Inc
25809 I-90
Bryant, Arkansas 72022
Generated 4/2/2024 12:54:27 PM

JOB DESCRIPTION

Groundwater - Landfill

JOB NUMBER

192-10523-1

Eurofins Arkansas

Job Notes

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Authorization



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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	27
QC Sample Results	28
QC Association Summary	39
Lab Chronicle	43
Certification Summary	47
Method Summary	48
Sample Summary	49
Chain of Custody	50
Receipt Checklists	51

Definitions/Glossary

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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 - Landfill

Job ID: 192-10523-1

Job ID: 192-10523-1

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Job Narrative 192-10523-1

Receipt

The samples were received on 3/20/2024 3:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3° C and 1.9° C.

GC/MS VOA

Method 8260D: Due to the high concentration of Methylene Chloride, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 192-13957 and analytical batch 192-15224 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

HPLC/IC

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

Metals

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

General Chemistry

Method SM 5310C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-152364 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.

VOA Prep

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

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Client Sample Results

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-1A

Lab Sample ID: 192-10523-1

Date Collected: 03/20/24 14:15

Matrix: Water

Date Received: 03/20/24 15:55

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			03/21/24 23:10	1
Benzene	<1.5		5.0	1.5	ug/L			03/21/24 23:10	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/21/24 23:10	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/21/24 23:10	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/21/24 23:10	1
Bromoform	<1.3		5.0	1.3	ug/L			03/21/24 23:10	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/21/24 23:10	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/21/24 23:10	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/21/24 23:10	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			03/21/24 23:10	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/21/24 23:10	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/21/24 23:10	1
Chloroform	<2.1		4.0	2.1	ug/L			03/21/24 23:10	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/21/24 23:10	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/21/24 23:10	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/21/24 23:10	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/21/24 23:10	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/21/24 23:10	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/21/24 23:10	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			03/21/24 23:10	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/21/24 23:10	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/21/24 23:10	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/21/24 23:10	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/21/24 23:10	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/21/24 23:10	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/21/24 23:10	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			03/21/24 23:10	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/21/24 23:10	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/21/24 23:10	1
Iodomethane	<6.3		10	6.3	ug/L			03/21/24 23:10	1
2-Hexanone	<3.8		10	3.8	ug/L			03/21/24 23:10	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/21/24 23:10	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/21/24 23:10	1
Styrene	<3.0		5.0	3.0	ug/L			03/21/24 23:10	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/21/24 23:10	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/21/24 23:10	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/21/24 23:10	1
Toluene	<3.2		5.0	3.2	ug/L			03/21/24 23:10	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/21/24 23:10	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/21/24 23:10	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/21/24 23:10	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/21/24 23:10	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/21/24 23:10	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/21/24 23:10	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/21/24 23:10	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/21/24 23:10	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/21/24 23:10	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/21/24 23:10	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/21/24 23:10	1

Client Sample Results

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-1A
Date Collected: 03/20/24 14:15
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		91 - 109		03/21/24 23:10	1
Toluene-d8 (Surr)	99		87 - 112		03/21/24 23:10	1
4-Bromofluorobenzene (Surr)	94		86 - 112		03/21/24 23:10	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77		2.0	1.5	mg/L			03/21/24 17:37	10
Sulfate	7.5		2.0	1.2	mg/L			03/21/24 17:37	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		04/01/24 10:38	04/01/24 14:26	1
Arsenic	0.0019		0.00050	0.00035	mg/L		04/01/24 10:38	04/01/24 14:26	1
Barium	0.11		0.010	0.0013	mg/L		04/01/24 10:38	04/01/24 15:47	5
Beryllium	<0.000098		0.00050	0.000098	mg/L		04/01/24 10:38	04/01/24 14:26	1
Cadmium	0.000036	J	0.00050	0.000028	mg/L		04/01/24 10:38	04/01/24 14:26	1
Chromium	0.00098		0.00050	0.00047	mg/L		04/01/24 10:38	04/01/24 14:26	1
Cobalt	<0.00072		0.010	0.00072	mg/L		04/01/24 10:38	04/01/24 14:26	1
Copper	0.0011		0.00050	0.00028	mg/L		04/01/24 10:38	04/01/24 14:26	1
Iron	0.52		0.050	0.014	mg/L		04/01/24 10:38	04/01/24 14:26	1
Lead	<0.00021		0.00050	0.00021	mg/L		04/01/24 10:38	04/01/24 14:26	1
Manganese	0.11		0.10	0.0017	mg/L		04/01/24 10:38	04/01/24 15:47	5
Nickel	0.0013		0.00050	0.00019	mg/L		04/01/24 10:38	04/01/24 14:26	1
Selenium	<0.00072		0.0020	0.00072	mg/L		04/01/24 10:38	04/01/24 14:26	1
Silver	<0.000069		0.00050	0.000069	mg/L		04/01/24 10:38	04/01/24 14:26	1
Thallium	<0.000045		0.00050	0.000045	mg/L		04/01/24 10:38	04/01/24 14:26	1
Vanadium	0.0058	J	0.010	0.0016	mg/L		04/01/24 10:38	04/01/24 14:26	1
Zinc	0.026		0.010	0.0018	mg/L		04/01/24 10:38	04/01/24 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	480		25	25	mg/L			03/22/24 09:23	1
Sulfide (SM 4500 S2 G-2011)	0.32		0.025	0.0049	mg/L			03/25/24 10:51	1
Total Organic Carbon (SM 5310C)	1.5		1.0	0.50	mg/L			03/28/24 18:35	1

Client Sample ID: MW-2A
Date Collected: 03/19/24 12:07
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-2
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			03/21/24 23:39	1
Benzene	<1.5		5.0	1.5	ug/L			03/21/24 23:39	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/21/24 23:39	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/21/24 23:39	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/21/24 23:39	1
Bromoform	<1.3		5.0	1.3	ug/L			03/21/24 23:39	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/21/24 23:39	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/21/24 23:39	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/21/24 23:39	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-2A

Lab Sample ID: 192-10523-2

Date Collected: 03/19/24 12:07

Matrix: Water

Date Received: 03/20/24 15:55

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			03/21/24 23:39	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/21/24 23:39	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/21/24 23:39	1
Chloroform	<2.1		4.0	2.1	ug/L			03/21/24 23:39	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/21/24 23:39	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/21/24 23:39	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/21/24 23:39	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/21/24 23:39	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/21/24 23:39	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/21/24 23:39	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			03/21/24 23:39	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/21/24 23:39	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/21/24 23:39	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/21/24 23:39	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/21/24 23:39	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/21/24 23:39	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/21/24 23:39	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			03/21/24 23:39	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/21/24 23:39	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/21/24 23:39	1
Iodomethane	<6.3		10	6.3	ug/L			03/21/24 23:39	1
2-Hexanone	<3.8		10	3.8	ug/L			03/21/24 23:39	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/21/24 23:39	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/21/24 23:39	1
Styrene	<3.0		5.0	3.0	ug/L			03/21/24 23:39	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/21/24 23:39	1
1,1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/21/24 23:39	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/21/24 23:39	1
Toluene	<3.2		5.0	3.2	ug/L			03/21/24 23:39	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/21/24 23:39	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/21/24 23:39	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/21/24 23:39	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/21/24 23:39	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/21/24 23:39	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/21/24 23:39	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/21/24 23:39	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/21/24 23:39	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/21/24 23:39	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/21/24 23:39	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/21/24 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		91 - 109		03/21/24 23:39	1
Toluene-d8 (Surr)	100		87 - 112		03/21/24 23:39	1
4-Bromofluorobenzene (Surr)	96		86 - 112		03/21/24 23:39	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			03/21/24 17:58	10
Sulfate	25		2.0	1.2	mg/L			03/21/24 17:58	10

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-2A

Lab Sample ID: 192-10523-2

Date Collected: 03/19/24 12:07

Matrix: Water

Date Received: 03/20/24 15:55

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		04/01/24 10:38	04/01/24 14:30	1
Arsenic	0.0030		0.00050	0.00035	mg/L		04/01/24 10:38	04/01/24 14:30	1
Barium	0.13		0.010	0.0013	mg/L		04/01/24 10:38	04/01/24 15:51	5
Beryllium	<0.000098		0.00050	0.000098	mg/L		04/01/24 10:38	04/01/24 14:30	1
Cadmium	<0.000028		0.00050	0.000028	mg/L		04/01/24 10:38	04/01/24 14:30	1
Chromium	<0.00047		0.00050	0.00047	mg/L		04/01/24 10:38	04/01/24 14:30	1
Cobalt	<0.00072		0.010	0.00072	mg/L		04/01/24 10:38	04/01/24 14:30	1
Copper	0.00060		0.00050	0.00028	mg/L		04/01/24 10:38	04/01/24 14:30	1
Iron	0.68		0.050	0.014	mg/L		04/01/24 10:38	04/01/24 14:30	1
Lead	<0.00021		0.00050	0.00021	mg/L		04/01/24 10:38	04/01/24 14:30	1
Manganese	0.13		0.10	0.0017	mg/L		04/01/24 10:38	04/01/24 15:51	5
Nickel	0.0011		0.00050	0.00019	mg/L		04/01/24 10:38	04/01/24 14:30	1
Selenium	<0.00072		0.0020	0.00072	mg/L		04/01/24 10:38	04/01/24 14:30	1
Silver	<0.000069		0.00050	0.000069	mg/L		04/01/24 10:38	04/01/24 14:30	1
Thallium	<0.000045		0.00050	0.000045	mg/L		04/01/24 10:38	04/01/24 14:30	1
Vanadium	0.0031	J	0.010	0.0016	mg/L		04/01/24 10:38	04/01/24 14:30	1
Zinc	0.011		0.010	0.0018	mg/L		04/01/24 10:38	04/01/24 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	330		25	25	mg/L			03/22/24 09:23	1
Sulfide (SM 4500 S2 G-2011)	0.15		0.025	0.0049	mg/L			03/25/24 10:51	1
Total Organic Carbon (SM 5310C)	1.3		1.0	0.50	mg/L			03/28/24 19:20	1

Client Sample ID: MW-3A

Lab Sample ID: 192-10523-3

Date Collected: 03/19/24 13:20

Matrix: Water

Date Received: 03/20/24 15:55

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			03/22/24 00:09	1
Benzene	<1.5		5.0	1.5	ug/L			03/22/24 00:09	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/22/24 00:09	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/22/24 00:09	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/22/24 00:09	1
Bromoform	<1.3		5.0	1.3	ug/L			03/22/24 00:09	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/22/24 00:09	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/22/24 00:09	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/22/24 00:09	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			03/22/24 00:09	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/22/24 00:09	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/22/24 00:09	1
Chloroform	<2.1		4.0	2.1	ug/L			03/22/24 00:09	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/22/24 00:09	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/22/24 00:09	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/22/24 00:09	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/22/24 00:09	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/22/24 00:09	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/22/24 00:09	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-3A

Lab Sample ID: 192-10523-3

Date Collected: 03/19/24 13:20

Matrix: Water

Date Received: 03/20/24 15:55

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			03/22/24 00:09	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/22/24 00:09	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 00:09	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/22/24 00:09	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/22/24 00:09	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/22/24 00:09	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/22/24 00:09	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			03/22/24 00:09	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/22/24 00:09	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/22/24 00:09	1
Iodomethane	<6.3		10	6.3	ug/L			03/22/24 00:09	1
2-Hexanone	<3.8		10	3.8	ug/L			03/22/24 00:09	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/22/24 00:09	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/22/24 00:09	1
Styrene	<3.0		5.0	3.0	ug/L			03/22/24 00:09	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/22/24 00:09	1
1,1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/22/24 00:09	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/22/24 00:09	1
Toluene	<3.2		5.0	3.2	ug/L			03/22/24 00:09	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/22/24 00:09	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 00:09	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/22/24 00:09	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/22/24 00:09	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/22/24 00:09	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 00:09	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 00:09	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/22/24 00:09	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/22/24 00:09	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/22/24 00:09	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/22/24 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		91 - 109					03/22/24 00:09	1
Toluene-d8 (Surr)	99		87 - 112					03/22/24 00:09	1
4-Bromofluorobenzene (Surr)	95		86 - 112					03/22/24 00:09	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		2.0	1.5	mg/L			03/21/24 18:18	10
Sulfate	39		2.0	1.2	mg/L			03/21/24 18:18	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		04/01/24 10:38	04/01/24 14:34	1
Arsenic	0.00091		0.00050	0.00035	mg/L		04/01/24 10:38	04/01/24 14:34	1
Barium	0.19		0.010	0.0013	mg/L		04/01/24 10:38	04/01/24 15:55	5
Beryllium	<0.000098		0.00050	0.000098	mg/L		04/01/24 10:38	04/01/24 14:34	1
Cadmium	0.000046	J	0.00050	0.000028	mg/L		04/01/24 10:38	04/01/24 14:34	1
Chromium	<0.00047		0.00050	0.00047	mg/L		04/01/24 10:38	04/01/24 14:34	1
Cobalt	<0.00072		0.010	0.00072	mg/L		04/01/24 10:38	04/01/24 14:34	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-3A

Lab Sample ID: 192-10523-3

Date Collected: 03/19/24 13:20

Matrix: Water

Date Received: 03/20/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.00078		0.00050	0.00028	mg/L		04/01/24 10:38	04/01/24 14:34	1
Iron	14		0.25	0.070	mg/L		04/01/24 10:38	04/01/24 15:55	5
Lead	<0.00021		0.00050	0.00021	mg/L		04/01/24 10:38	04/01/24 14:34	1
Manganese	0.36		0.10	0.0017	mg/L		04/01/24 10:38	04/01/24 15:55	5
Nickel	0.0062		0.00050	0.00019	mg/L		04/01/24 10:38	04/01/24 14:34	1
Selenium	<0.00072		0.0020	0.00072	mg/L		04/01/24 10:38	04/01/24 14:34	1
Silver	<0.000069		0.00050	0.000069	mg/L		04/01/24 10:38	04/01/24 14:34	1
Thallium	<0.000045		0.00050	0.000045	mg/L		04/01/24 10:38	04/01/24 14:34	1
Vanadium	0.023		0.010	0.0016	mg/L		04/01/24 10:38	04/01/24 14:34	1
Zinc	0.11		0.050	0.0090	mg/L		04/01/24 10:38	04/01/24 15:55	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	200		25	25	mg/L			03/22/24 09:23	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			03/25/24 10:51	1
Total Organic Carbon (SM 5310C)	1.7		1.0	0.50	mg/L			03/28/24 19:36	1

Client Sample ID: MW-4A

Lab Sample ID: 192-10523-4

Date Collected: 03/19/24 14:28

Matrix: Water

Date Received: 03/20/24 15:55

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			03/22/24 00:39	1
Benzene	<1.5		5.0	1.5	ug/L			03/22/24 00:39	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/22/24 00:39	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/22/24 00:39	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/22/24 00:39	1
Bromoform	<1.3		5.0	1.3	ug/L			03/22/24 00:39	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/22/24 00:39	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/22/24 00:39	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/22/24 00:39	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			03/22/24 00:39	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/22/24 00:39	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/22/24 00:39	1
Chloroform	<2.1		4.0	2.1	ug/L			03/22/24 00:39	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/22/24 00:39	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/22/24 00:39	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/22/24 00:39	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/22/24 00:39	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/22/24 00:39	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/22/24 00:39	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			03/22/24 00:39	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/22/24 00:39	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 00:39	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/22/24 00:39	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/22/24 00:39	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/22/24 00:39	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/22/24 00:39	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-4A

Lab Sample ID: 192-10523-4

Date Collected: 03/19/24 14:28

Matrix: Water

Date Received: 03/20/24 15:55

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			03/22/24 00:39	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/22/24 00:39	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/22/24 00:39	1
Iodomethane	<6.3		10	6.3	ug/L			03/22/24 00:39	1
2-Hexanone	<3.8		10	3.8	ug/L			03/22/24 00:39	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/22/24 00:39	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/22/24 00:39	1
Styrene	<3.0		5.0	3.0	ug/L			03/22/24 00:39	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/22/24 00:39	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/22/24 00:39	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/22/24 00:39	1
Toluene	<3.2		5.0	3.2	ug/L			03/22/24 00:39	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/22/24 00:39	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 00:39	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/22/24 00:39	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/22/24 00:39	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/22/24 00:39	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 00:39	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 00:39	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/22/24 00:39	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/22/24 00:39	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/22/24 00:39	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/22/24 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		91 - 109		03/22/24 00:39	1
Toluene-d8 (Surr)	101		87 - 112		03/22/24 00:39	1
4-Bromofluorobenzene (Surr)	96		86 - 112		03/22/24 00:39	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.6		2.0	1.5	mg/L			03/21/24 18:39	10
Sulfate	6.7		2.0	1.2	mg/L			03/21/24 18:39	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		04/01/24 10:38	04/01/24 14:37	1
Arsenic	0.0025		0.00050	0.00035	mg/L		04/01/24 10:38	04/01/24 14:37	1
Barium	0.24		0.010	0.0013	mg/L		04/01/24 10:38	04/01/24 15:58	5
Beryllium	<0.000098		0.00050	0.000098	mg/L		04/01/24 10:38	04/01/24 14:37	1
Cadmium	0.000078	J	0.00050	0.000028	mg/L		04/01/24 10:38	04/01/24 14:37	1
Chromium	<0.00047		0.00050	0.00047	mg/L		04/01/24 10:38	04/01/24 14:37	1
Cobalt	<0.00072		0.010	0.00072	mg/L		04/01/24 10:38	04/01/24 14:37	1
Copper	0.00068		0.00050	0.00028	mg/L		04/01/24 10:38	04/01/24 14:37	1
Iron	7.1		0.050	0.014	mg/L		04/01/24 10:38	04/01/24 14:37	1
Lead	<0.00021		0.00050	0.00021	mg/L		04/01/24 10:38	04/01/24 14:37	1
Manganese	0.35		0.10	0.0017	mg/L		04/01/24 10:38	04/01/24 15:58	5
Nickel	0.00099		0.00050	0.00019	mg/L		04/01/24 10:38	04/01/24 14:37	1
Selenium	<0.00072		0.0020	0.00072	mg/L		04/01/24 10:38	04/01/24 14:37	1
Silver	<0.000069		0.00050	0.000069	mg/L		04/01/24 10:38	04/01/24 14:37	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-4A

Lab Sample ID: 192-10523-4

Date Collected: 03/19/24 14:28

Matrix: Water

Date Received: 03/20/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.000045		0.00050	0.000045	mg/L		04/01/24 10:38	04/01/24 14:37	1
Vanadium	0.0042	J	0.010	0.0016	mg/L		04/01/24 10:38	04/01/24 14:37	1
Zinc	0.012		0.010	0.0018	mg/L		04/01/24 10:38	04/01/24 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	200		25	25	mg/L			03/22/24 09:23	1
Sulfide (SM 4500 S2 G-2011)	0.043		0.025	0.0049	mg/L			03/25/24 10:51	1
Total Organic Carbon (SM 5310C)	1.4		1.0	0.50	mg/L			03/28/24 19:51	1

Client Sample ID: MW-6B

Lab Sample ID: 192-10523-5

Date Collected: 03/20/24 10:28

Matrix: Water

Date Received: 03/20/24 15:55

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			03/22/24 01:09	1
Benzene	<1.5		5.0	1.5	ug/L			03/22/24 01:09	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/22/24 01:09	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/22/24 01:09	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/22/24 01:09	1
Bromoform	<1.3		5.0	1.3	ug/L			03/22/24 01:09	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/22/24 01:09	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/22/24 01:09	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/22/24 01:09	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			03/22/24 01:09	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/22/24 01:09	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/22/24 01:09	1
Chloroform	<2.1		4.0	2.1	ug/L			03/22/24 01:09	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/22/24 01:09	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/22/24 01:09	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/22/24 01:09	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/22/24 01:09	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/22/24 01:09	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/22/24 01:09	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			03/22/24 01:09	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/22/24 01:09	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 01:09	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/22/24 01:09	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/22/24 01:09	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/22/24 01:09	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/22/24 01:09	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			03/22/24 01:09	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/22/24 01:09	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/22/24 01:09	1
Iodomethane	<6.3		10	6.3	ug/L			03/22/24 01:09	1
2-Hexanone	<3.8		10	3.8	ug/L			03/22/24 01:09	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/22/24 01:09	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/22/24 01:09	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-6B

Lab Sample ID: 192-10523-5

Date Collected: 03/20/24 10:28

Matrix: Water

Date Received: 03/20/24 15:55

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			03/22/24 01:09	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/22/24 01:09	1
1,1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/22/24 01:09	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/22/24 01:09	1
Toluene	<3.2		5.0	3.2	ug/L			03/22/24 01:09	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/22/24 01:09	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 01:09	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/22/24 01:09	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/22/24 01:09	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/22/24 01:09	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 01:09	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 01:09	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/22/24 01:09	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/22/24 01:09	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/22/24 01:09	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/22/24 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		91 - 109					03/22/24 01:09	1
Toluene-d8 (Surr)	100		87 - 112					03/22/24 01:09	1
4-Bromofluorobenzene (Surr)	97		86 - 112					03/22/24 01:09	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.88		0.20	0.15	mg/L			03/22/24 16:20	1
Sulfate	1.8		0.20	0.12	mg/L			03/22/24 16:20	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		04/01/24 10:38	04/01/24 14:41	1
Arsenic	0.0075		0.00050	0.00035	mg/L		04/01/24 10:38	04/01/24 14:41	1
Barium	0.11		0.010	0.0013	mg/L		04/01/24 10:38	04/01/24 16:09	5
Beryllium	0.00020	J	0.00050	0.000098	mg/L		04/01/24 10:38	04/01/24 14:41	1
Cadmium	0.000031	J	0.00050	0.000028	mg/L		04/01/24 10:38	04/01/24 14:41	1
Chromium	0.00089		0.00050	0.00047	mg/L		04/01/24 10:38	04/01/24 14:41	1
Cobalt	0.0013	J	0.010	0.00072	mg/L		04/01/24 10:38	04/01/24 14:41	1
Copper	0.012		0.00050	0.00028	mg/L		04/01/24 10:38	04/01/24 14:41	1
Iron	21		0.25	0.070	mg/L		04/01/24 10:38	04/01/24 16:09	5
Lead	0.00065		0.00050	0.00021	mg/L		04/01/24 10:38	04/01/24 14:41	1
Manganese	4.0		2.0	0.034	mg/L		04/01/24 10:38	04/01/24 16:02	100
Nickel	0.0020		0.00050	0.00019	mg/L		04/01/24 10:38	04/01/24 14:41	1
Selenium	<0.00072		0.0020	0.00072	mg/L		04/01/24 10:38	04/01/24 14:41	1
Silver	<0.000069		0.00050	0.000069	mg/L		04/01/24 10:38	04/01/24 14:41	1
Thallium	<0.000045		0.00050	0.000045	mg/L		04/01/24 10:38	04/01/24 14:41	1
Vanadium	0.0061	J	0.010	0.0016	mg/L		04/01/24 10:38	04/01/24 14:41	1
Zinc	0.017		0.010	0.0018	mg/L		04/01/24 10:38	04/01/24 14:41	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			03/22/24 09:23	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-6B

Date Collected: 03/20/24 10:28

Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-5

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 G-2011)	0.13		0.025	0.0049	mg/L			03/25/24 10:51	1
Total Organic Carbon (SM 5310C)	28		10	5.0	mg/L			03/29/24 01:10	10

Client Sample ID: MW-7A

Date Collected: 03/20/24 08:45

Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-6

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			03/22/24 01:39	1
Benzene	<1.5		5.0	1.5	ug/L			03/22/24 01:39	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/22/24 01:39	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/22/24 01:39	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/22/24 01:39	1
Bromoform	<1.3		5.0	1.3	ug/L			03/22/24 01:39	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/22/24 01:39	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/22/24 01:39	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/22/24 01:39	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			03/22/24 01:39	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/22/24 01:39	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/22/24 01:39	1
Chloroform	<2.1		4.0	2.1	ug/L			03/22/24 01:39	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/22/24 01:39	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/22/24 01:39	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/22/24 01:39	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/22/24 01:39	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/22/24 01:39	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/22/24 01:39	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			03/22/24 01:39	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/22/24 01:39	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 01:39	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/22/24 01:39	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/22/24 01:39	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/22/24 01:39	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/22/24 01:39	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			03/22/24 01:39	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/22/24 01:39	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/22/24 01:39	1
Iodomethane	<6.3		10	6.3	ug/L			03/22/24 01:39	1
2-Hexanone	<3.8		10	3.8	ug/L			03/22/24 01:39	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/22/24 01:39	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/22/24 01:39	1
Styrene	<3.0		5.0	3.0	ug/L			03/22/24 01:39	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/22/24 01:39	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/22/24 01:39	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/22/24 01:39	1
Toluene	<3.2		5.0	3.2	ug/L			03/22/24 01:39	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/22/24 01:39	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 01:39	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/22/24 01:39	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-7A

Lab Sample ID: 192-10523-6

Date Collected: 03/20/24 08:45

Matrix: Water

Date Received: 03/20/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/22/24 01:39	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/22/24 01:39	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 01:39	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 01:39	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/22/24 01:39	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/22/24 01:39	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/22/24 01:39	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/22/24 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		91 - 109		03/22/24 01:39	1
Toluene-d8 (Surr)	99		87 - 112		03/22/24 01:39	1
4-Bromofluorobenzene (Surr)	97		86 - 112		03/22/24 01:39	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		0.20	0.15	mg/L			03/22/24 16:41	1
Sulfate	15		0.20	0.12	mg/L			03/22/24 16:41	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		04/01/24 10:38	04/01/24 14:49	1
Arsenic	0.00066		0.00050	0.00035	mg/L		04/01/24 10:38	04/01/24 14:49	1
Barium	0.057		0.0020	0.00026	mg/L		04/01/24 10:38	04/01/24 14:49	1
Beryllium	0.00017	J	0.00050	0.000098	mg/L		04/01/24 10:38	04/01/24 14:49	1
Cadmium	0.000044	J	0.00050	0.000028	mg/L		04/01/24 10:38	04/01/24 14:49	1
Chromium	<0.00047		0.00050	0.00047	mg/L		04/01/24 10:38	04/01/24 14:49	1
Cobalt	0.00074	J	0.010	0.00072	mg/L		04/01/24 10:38	04/01/24 14:49	1
Copper	0.0012		0.00050	0.00028	mg/L		04/01/24 10:38	04/01/24 14:49	1
Iron	0.74		0.050	0.014	mg/L		04/01/24 10:38	04/01/24 14:49	1
Lead	0.00037	J	0.00050	0.00021	mg/L		04/01/24 10:38	04/01/24 14:49	1
Manganese	0.18		0.10	0.0017	mg/L		04/01/24 10:38	04/01/24 16:24	5
Nickel	0.00085		0.00050	0.00019	mg/L		04/01/24 10:38	04/01/24 14:49	1
Selenium	<0.00072		0.0020	0.00072	mg/L		04/01/24 10:38	04/01/24 14:49	1
Silver	<0.000069		0.00050	0.000069	mg/L		04/01/24 10:38	04/01/24 14:49	1
Thallium	<0.000045		0.00050	0.000045	mg/L		04/01/24 10:38	04/01/24 14:49	1
Vanadium	0.0039	J	0.010	0.0016	mg/L		04/01/24 10:38	04/01/24 14:49	1
Zinc	0.014		0.010	0.0018	mg/L		04/01/24 10:38	04/01/24 14:49	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			03/22/24 09:23	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			03/25/24 10:51	1
Total Organic Carbon (SM 5310C)	2.3		1.0	0.50	mg/L			03/29/24 00:55	1

Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: GCS-1

Lab Sample ID: 192-10523-7

Date Collected: 03/20/24 08:05

Matrix: Water

Date Received: 03/20/24 15:55

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			03/22/24 02:09	1
Benzene	2.3	J	5.0	1.5	ug/L			03/22/24 02:09	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/22/24 02:09	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/22/24 02:09	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/22/24 02:09	1
Bromoform	<1.3		5.0	1.3	ug/L			03/22/24 02:09	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/22/24 02:09	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/22/24 02:09	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/22/24 02:09	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			03/22/24 02:09	1
Chlorobenzene	1.7	J	5.0	1.1	ug/L			03/22/24 02:09	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/22/24 02:09	1
Chloroform	<2.1		4.0	2.1	ug/L			03/22/24 02:09	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/22/24 02:09	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/22/24 02:09	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/22/24 02:09	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/22/24 02:09	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/22/24 02:09	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/22/24 02:09	1
1,4-Dichlorobenzene	3.1	J	5.0	1.4	ug/L			03/22/24 02:09	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/22/24 02:09	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 02:09	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/22/24 02:09	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/22/24 02:09	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/22/24 02:09	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/22/24 02:09	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			03/22/24 02:09	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/22/24 02:09	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/22/24 02:09	1
Iodomethane	<6.3		10	6.3	ug/L			03/22/24 02:09	1
2-Hexanone	<3.8		10	3.8	ug/L			03/22/24 02:09	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/22/24 02:09	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/22/24 02:09	1
Styrene	<3.0		5.0	3.0	ug/L			03/22/24 02:09	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/22/24 02:09	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/22/24 02:09	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/22/24 02:09	1
Toluene	<3.2		5.0	3.2	ug/L			03/22/24 02:09	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/22/24 02:09	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 02:09	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/22/24 02:09	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/22/24 02:09	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/22/24 02:09	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 02:09	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 02:09	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/22/24 02:09	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/22/24 02:09	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/22/24 02:09	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/22/24 02:09	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: GCS-1
Date Collected: 03/20/24 08:05
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		91 - 109		03/22/24 02:09	1
Toluene-d8 (Surr)	99		87 - 112		03/22/24 02:09	1
4-Bromofluorobenzene (Surr)	97		86 - 112		03/22/24 02:09	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		0.20	0.15	mg/L			03/22/24 17:02	1
Sulfate	0.88		0.20	0.12	mg/L			03/22/24 17:02	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		04/01/24 10:38	04/01/24 14:52	1
Arsenic	0.0036		0.00050	0.00035	mg/L		04/01/24 10:38	04/01/24 14:52	1
Barium	0.24		0.010	0.0013	mg/L		04/01/24 10:38	04/01/24 16:35	5
Beryllium	<0.000098		0.00050	0.000098	mg/L		04/01/24 10:38	04/01/24 14:52	1
Cadmium	<0.000028		0.00050	0.000028	mg/L		04/01/24 10:38	04/01/24 14:52	1
Chromium	<0.00047		0.00050	0.00047	mg/L		04/01/24 10:38	04/01/24 14:52	1
Cobalt	0.0028	J	0.010	0.00072	mg/L		04/01/24 10:38	04/01/24 14:52	1
Copper	0.00043	J	0.00050	0.00028	mg/L		04/01/24 10:38	04/01/24 14:52	1
Iron	87		5.0	1.4	mg/L		04/01/24 10:38	04/01/24 16:32	100
Lead	<0.00021		0.00050	0.00021	mg/L		04/01/24 10:38	04/01/24 14:52	1
Manganese	12	J	20	0.34	mg/L		04/01/24 10:38	04/01/24 16:28	1000
Nickel	0.00070		0.00050	0.00019	mg/L		04/01/24 10:38	04/01/24 14:52	1
Selenium	<0.00072		0.0020	0.00072	mg/L		04/01/24 10:38	04/01/24 14:52	1
Silver	<0.000069		0.00050	0.000069	mg/L		04/01/24 10:38	04/01/24 14:52	1
Thallium	<0.000045		0.00050	0.000045	mg/L		04/01/24 10:38	04/01/24 14:52	1
Vanadium	0.0034	J	0.010	0.0016	mg/L		04/01/24 10:38	04/01/24 14:52	1
Zinc	0.0096	J	0.010	0.0018	mg/L		04/01/24 10:38	04/01/24 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	330		25	25	mg/L			03/22/24 09:23	1
Sulfide (SM 4500 S2 G-2011)	0.033		0.025	0.0049	mg/L			03/25/24 10:51	1
Total Organic Carbon (SM 5310C)	2.8	F1	1.0	0.50	mg/L			03/28/24 20:36	1

Client Sample ID: Leachate
Date Collected: 03/20/24 12:30
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	58		10	6.3	ug/L			03/22/24 02:39	1
Benzene	<1.5		5.0	1.5	ug/L			03/22/24 02:39	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/22/24 02:39	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/22/24 02:39	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/22/24 02:39	1
Bromoform	<1.3		5.0	1.3	ug/L			03/22/24 02:39	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/22/24 02:39	1
2-Butanone (MEK)	55		10	3.3	ug/L			03/22/24 02:39	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/22/24 02:39	1

Eurolins Arkansas

Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: Leachate

Lab Sample ID: 192-10523-8

Date Collected: 03/20/24 12:30

Matrix: Water

Date Received: 03/20/24 15:55

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			03/22/24 02:39	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/22/24 02:39	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/22/24 02:39	1
Chloroform	<2.1		4.0	2.1	ug/L			03/22/24 02:39	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/22/24 02:39	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/22/24 02:39	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/22/24 02:39	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/22/24 02:39	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/22/24 02:39	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/22/24 02:39	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			03/22/24 02:39	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/22/24 02:39	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 02:39	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/22/24 02:39	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/22/24 02:39	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/22/24 02:39	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/22/24 02:39	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			03/22/24 02:39	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/22/24 02:39	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/22/24 02:39	1
Iodomethane	<6.3		10	6.3	ug/L			03/22/24 02:39	1
2-Hexanone	<3.8		10	3.8	ug/L			03/22/24 02:39	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/22/24 02:39	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/22/24 02:39	1
Styrene	<3.0		5.0	3.0	ug/L			03/22/24 02:39	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/22/24 02:39	1
1,1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/22/24 02:39	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/22/24 02:39	1
Toluene	<3.2		5.0	3.2	ug/L			03/22/24 02:39	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/22/24 02:39	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 02:39	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/22/24 02:39	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/22/24 02:39	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/22/24 02:39	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 02:39	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 02:39	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/22/24 02:39	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/22/24 02:39	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/22/24 02:39	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/22/24 02:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		91 - 109		03/22/24 02:39	1
Toluene-d8 (Surr)	99		87 - 112		03/22/24 02:39	1
4-Bromofluorobenzene (Surr)	95		86 - 112		03/22/24 02:39	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		2.0	1.5	mg/L			03/21/24 20:02	10
Sulfate	7.0		2.0	1.2	mg/L			03/21/24 20:02	10

Eurolins Arkansas

Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: Leachate

Lab Sample ID: 192-10523-8

Date Collected: 03/20/24 12:30

Matrix: Water

Date Received: 03/20/24 15:55

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		04/01/24 10:38	04/01/24 14:56	1
Arsenic	0.048		0.00050	0.00035	mg/L		04/01/24 10:38	04/01/24 14:56	1
Barium	0.15		0.010	0.0013	mg/L		04/01/24 10:38	04/01/24 16:46	5
Beryllium	<0.000098		0.00050	0.000098	mg/L		04/01/24 10:38	04/01/24 14:56	1
Cadmium	0.000035	J	0.00050	0.000028	mg/L		04/01/24 10:38	04/01/24 14:56	1
Chromium	0.026		0.00050	0.00047	mg/L		04/01/24 10:38	04/01/24 14:56	1
Cobalt	0.0045	J	0.010	0.00072	mg/L		04/01/24 10:38	04/01/24 14:56	1
Copper	0.0018		0.00050	0.00028	mg/L		04/01/24 10:38	04/01/24 14:56	1
Iron	1.6		0.050	0.014	mg/L		04/01/24 10:38	04/01/24 14:56	1
Lead	0.0010		0.00050	0.00021	mg/L		04/01/24 10:38	04/01/24 14:56	1
Manganese	1.3	J	2.0	0.034	mg/L		04/01/24 10:38	04/01/24 16:43	100
Nickel	0.017		0.00050	0.00019	mg/L		04/01/24 10:38	04/01/24 14:56	1
Selenium	<0.00072		0.0020	0.00072	mg/L		04/01/24 10:38	04/01/24 14:56	1
Silver	<0.000069		0.00050	0.000069	mg/L		04/01/24 10:38	04/01/24 14:56	1
Thallium	<0.000045		0.00050	0.000045	mg/L		04/01/24 10:38	04/01/24 14:56	1
Vanadium	0.012		0.010	0.0016	mg/L		04/01/24 10:38	04/01/24 14:56	1
Zinc	0.028		0.010	0.0018	mg/L		04/01/24 10:38	04/01/24 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	1200		25	25	mg/L			03/22/24 09:23	1
Sulfide (SM 4500 S2 G-2011)	9.3		1.3	0.25	mg/L			03/25/24 10:51	50
Total Organic Carbon (SM 5310C)	110		10	5.0	mg/L			03/29/24 01:25	10

Client Sample ID: Dup

Lab Sample ID: 192-10523-9

Date Collected: 03/19/24 12:10

Matrix: Water

Date Received: 03/20/24 15:55

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			03/22/24 03:09	1
Benzene	<1.5		5.0	1.5	ug/L			03/22/24 03:09	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/22/24 03:09	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/22/24 03:09	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/22/24 03:09	1
Bromoform	<1.3		5.0	1.3	ug/L			03/22/24 03:09	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/22/24 03:09	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/22/24 03:09	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/22/24 03:09	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			03/22/24 03:09	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/22/24 03:09	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/22/24 03:09	1
Chloroform	<2.1		4.0	2.1	ug/L			03/22/24 03:09	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/22/24 03:09	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/22/24 03:09	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/22/24 03:09	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/22/24 03:09	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/22/24 03:09	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/22/24 03:09	1

Euofins Arkansas

Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: Dup

Lab Sample ID: 192-10523-9

Date Collected: 03/19/24 12:10

Matrix: Water

Date Received: 03/20/24 15:55

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			03/22/24 03:09	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/22/24 03:09	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 03:09	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/22/24 03:09	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/22/24 03:09	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/22/24 03:09	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/22/24 03:09	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			03/22/24 03:09	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/22/24 03:09	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/22/24 03:09	1
Iodomethane	<6.3		10	6.3	ug/L			03/22/24 03:09	1
2-Hexanone	<3.8		10	3.8	ug/L			03/22/24 03:09	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/22/24 03:09	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/22/24 03:09	1
Styrene	<3.0		5.0	3.0	ug/L			03/22/24 03:09	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/22/24 03:09	1
1,1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/22/24 03:09	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/22/24 03:09	1
Toluene	<3.2		5.0	3.2	ug/L			03/22/24 03:09	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/22/24 03:09	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 03:09	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/22/24 03:09	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/22/24 03:09	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/22/24 03:09	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 03:09	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 03:09	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/22/24 03:09	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/22/24 03:09	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/22/24 03:09	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/22/24 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		91 - 109					03/22/24 03:09	1
Toluene-d8 (Surr)	99		87 - 112					03/22/24 03:09	1
4-Bromofluorobenzene (Surr)	96		86 - 112					03/22/24 03:09	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			03/21/24 20:23	10
Sulfate	26		2.0	1.2	mg/L			03/21/24 20:23	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		04/01/24 10:38	04/01/24 15:03	1
Arsenic	0.0030		0.00050	0.00035	mg/L		04/01/24 10:38	04/01/24 15:03	1
Barium	0.13		0.010	0.0013	mg/L		04/01/24 10:38	04/01/24 16:50	5
Beryllium	<0.000098		0.00050	0.000098	mg/L		04/01/24 10:38	04/01/24 15:03	1
Cadmium	<0.000028		0.00050	0.000028	mg/L		04/01/24 10:38	04/01/24 15:03	1
Chromium	<0.00047		0.00050	0.00047	mg/L		04/01/24 10:38	04/01/24 15:03	1
Cobalt	<0.00072		0.010	0.00072	mg/L		04/01/24 10:38	04/01/24 15:03	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: Dup
Date Collected: 03/19/24 12:10
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0011		0.00050	0.00028	mg/L		04/01/24 10:38	04/01/24 15:03	1
Iron	0.69		0.050	0.014	mg/L		04/01/24 10:38	04/01/24 15:03	1
Lead	<0.00021		0.00050	0.00021	mg/L		04/01/24 10:38	04/01/24 15:03	1
Manganese	0.12		0.10	0.0017	mg/L		04/01/24 10:38	04/01/24 16:50	5
Nickel	0.0014		0.00050	0.00019	mg/L		04/01/24 10:38	04/01/24 15:03	1
Selenium	<0.00072		0.0020	0.00072	mg/L		04/01/24 10:38	04/01/24 15:03	1
Silver	<0.000069		0.00050	0.000069	mg/L		04/01/24 10:38	04/01/24 15:03	1
Thallium	<0.000045		0.00050	0.000045	mg/L		04/01/24 10:38	04/01/24 15:03	1
Vanadium	0.0037	J	0.010	0.0016	mg/L		04/01/24 10:38	04/01/24 15:03	1
Zinc	0.014		0.010	0.0018	mg/L		04/01/24 10:38	04/01/24 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	330		25	25	mg/L			03/22/24 09:23	1
Sulfide (SM 4500 S2 G-2011)	0.16		0.025	0.0049	mg/L			03/25/24 10:51	1
Total Organic Carbon (SM 5310C)	1.5		1.0	0.50	mg/L			03/28/24 23:24	1

Client Sample ID: FB
Date Collected: 03/20/24 13:00
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-10
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			03/22/24 03:39	1
Benzene	<1.5		5.0	1.5	ug/L			03/22/24 03:39	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/22/24 03:39	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/22/24 03:39	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/22/24 03:39	1
Bromoform	<1.3		5.0	1.3	ug/L			03/22/24 03:39	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/22/24 03:39	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/22/24 03:39	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/22/24 03:39	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			03/22/24 03:39	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/22/24 03:39	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/22/24 03:39	1
Chloroform	<2.1		4.0	2.1	ug/L			03/22/24 03:39	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/22/24 03:39	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/22/24 03:39	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/22/24 03:39	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/22/24 03:39	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/22/24 03:39	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/22/24 03:39	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			03/22/24 03:39	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/22/24 03:39	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 03:39	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/22/24 03:39	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/22/24 03:39	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/22/24 03:39	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/22/24 03:39	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: FB

Lab Sample ID: 192-10523-10

Date Collected: 03/20/24 13:00

Matrix: Water

Date Received: 03/20/24 15:55

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			03/22/24 03:39	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/22/24 03:39	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/22/24 03:39	1
Iodomethane	<6.3		10	6.3	ug/L			03/22/24 03:39	1
2-Hexanone	<3.8		10	3.8	ug/L			03/22/24 03:39	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/22/24 03:39	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/22/24 03:39	1
Styrene	<3.0		5.0	3.0	ug/L			03/22/24 03:39	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/22/24 03:39	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/22/24 03:39	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/22/24 03:39	1
Toluene	<3.2		5.0	3.2	ug/L			03/22/24 03:39	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/22/24 03:39	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/22/24 03:39	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/22/24 03:39	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/22/24 03:39	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/22/24 03:39	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 03:39	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/22/24 03:39	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/22/24 03:39	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/22/24 03:39	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/22/24 03:39	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/22/24 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		91 - 109		03/22/24 03:39	1
Toluene-d8 (Surr)	99		87 - 112		03/22/24 03:39	1
4-Bromofluorobenzene (Surr)	97		86 - 112		03/22/24 03:39	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			03/21/24 14:51	1
Sulfate	<0.12		0.20	0.12	mg/L			03/21/24 14:51	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		04/01/24 10:38	04/01/24 13:31	1
Arsenic	<0.00035		0.00050	0.00035	mg/L		04/01/24 10:38	04/01/24 13:31	1
Barium	<0.00026		0.0020	0.00026	mg/L		04/01/24 10:38	04/01/24 13:31	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		04/01/24 10:38	04/01/24 13:31	1
Cadmium	<0.000028		0.00050	0.000028	mg/L		04/01/24 10:38	04/01/24 13:31	1
Chromium	<0.00047		0.00050	0.00047	mg/L		04/01/24 10:38	04/01/24 13:31	1
Cobalt	<0.00072		0.010	0.00072	mg/L		04/01/24 10:38	04/01/24 13:31	1
Copper	<0.00028		0.00050	0.00028	mg/L		04/01/24 10:38	04/01/24 13:31	1
Iron	<0.014		0.050	0.014	mg/L		04/01/24 10:38	04/01/24 13:31	1
Lead	<0.00021		0.00050	0.00021	mg/L		04/01/24 10:38	04/01/24 13:31	1
Manganese	<0.00034		0.020	0.00034	mg/L		04/01/24 10:38	04/01/24 13:31	1
Nickel	<0.00019		0.00050	0.00019	mg/L		04/01/24 10:38	04/01/24 13:31	1
Selenium	<0.00072		0.0020	0.00072	mg/L		04/01/24 10:38	04/01/24 13:31	1
Silver	<0.000069		0.00050	0.000069	mg/L		04/01/24 10:38	04/01/24 13:31	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: FB

Date Collected: 03/20/24 13:00

Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.000045		0.00050	0.000045	mg/L		04/01/24 10:38	04/01/24 13:31	1
Vanadium	<0.0016		0.010	0.0016	mg/L		04/01/24 10:38	04/01/24 13:31	1
Zinc	<0.0018		0.010	0.0018	mg/L		04/01/24 10:38	04/01/24 13:31	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			03/22/24 09:23	1
Sulfide (SM 4500 S2 G-2011)	<0.0049		0.025	0.0049	mg/L			03/25/24 10:51	1
Total Organic Carbon (SM 5310C)	1.0		1.0	0.50	mg/L			03/28/24 22:38	1

Client Sample ID: Equipment Blank

Date Collected: 03/20/24 13:10

Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-11

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			03/21/24 22:10	1
Benzene	<1.5		5.0	1.5	ug/L			03/21/24 22:10	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/21/24 22:10	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/21/24 22:10	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/21/24 22:10	1
Bromoform	<1.3		5.0	1.3	ug/L			03/21/24 22:10	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/21/24 22:10	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/21/24 22:10	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/21/24 22:10	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			03/21/24 22:10	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/21/24 22:10	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/21/24 22:10	1
Chloroform	<2.1		4.0	2.1	ug/L			03/21/24 22:10	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/21/24 22:10	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/21/24 22:10	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/21/24 22:10	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/21/24 22:10	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/21/24 22:10	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/21/24 22:10	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			03/21/24 22:10	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/21/24 22:10	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/21/24 22:10	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/21/24 22:10	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/21/24 22:10	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/21/24 22:10	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/21/24 22:10	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			03/21/24 22:10	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/21/24 22:10	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/21/24 22:10	1
Iodomethane	<6.3		10	6.3	ug/L			03/21/24 22:10	1
2-Hexanone	<3.8		10	3.8	ug/L			03/21/24 22:10	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/21/24 22:10	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/21/24 22:10	1

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Client Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: Equipment Blank

Lab Sample ID: 192-10523-11

Date Collected: 03/20/24 13:10

Matrix: Water

Date Received: 03/20/24 15:55

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			03/21/24 22:10	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/21/24 22:10	1
1,1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/21/24 22:10	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/21/24 22:10	1
Toluene	<3.2		5.0	3.2	ug/L			03/21/24 22:10	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/21/24 22:10	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/21/24 22:10	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/21/24 22:10	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/21/24 22:10	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/21/24 22:10	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/21/24 22:10	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/21/24 22:10	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/21/24 22:10	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/21/24 22:10	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/21/24 22:10	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/21/24 22:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		91 - 109					03/21/24 22:10	1
Toluene-d8 (Surr)	100		87 - 112					03/21/24 22:10	1
4-Bromofluorobenzene (Surr)	97		86 - 112					03/21/24 22:10	1

Client Sample ID: Trip Blank

Lab Sample ID: 192-10523-12

Date Collected: 03/20/24 00:00

Matrix: Water

Date Received: 03/20/24 15:55

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			03/21/24 22:40	1
Benzene	<1.5		5.0	1.5	ug/L			03/21/24 22:40	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/21/24 22:40	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/21/24 22:40	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/21/24 22:40	1
Bromoform	<1.3		5.0	1.3	ug/L			03/21/24 22:40	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/21/24 22:40	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/21/24 22:40	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/21/24 22:40	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			03/21/24 22:40	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/21/24 22:40	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/21/24 22:40	1
Chloroform	<2.1		4.0	2.1	ug/L			03/21/24 22:40	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/21/24 22:40	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/21/24 22:40	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/21/24 22:40	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/21/24 22:40	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/21/24 22:40	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/21/24 22:40	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			03/21/24 22:40	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/21/24 22:40	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/21/24 22:40	1

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Client Sample Results

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: Trip Blank

Lab Sample ID: 192-10523-12

Date Collected: 03/20/24 00:00

Matrix: Water

Date Received: 03/20/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/21/24 22:40	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/21/24 22:40	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/21/24 22:40	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/21/24 22:40	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			03/21/24 22:40	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/21/24 22:40	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/21/24 22:40	1
Iodomethane	<6.3		10	6.3	ug/L			03/21/24 22:40	1
2-Hexanone	<3.8		10	3.8	ug/L			03/21/24 22:40	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/21/24 22:40	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/21/24 22:40	1
Styrene	<3.0		5.0	3.0	ug/L			03/21/24 22:40	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/21/24 22:40	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/21/24 22:40	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/21/24 22:40	1
Toluene	<3.2		5.0	3.2	ug/L			03/21/24 22:40	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/21/24 22:40	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/21/24 22:40	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/21/24 22:40	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/21/24 22:40	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/21/24 22:40	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/21/24 22:40	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/21/24 22:40	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/21/24 22:40	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/21/24 22:40	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/21/24 22:40	1
o-Xylene	<1.8		5.0	1.8	ug/L			03/21/24 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		91 - 109		03/21/24 22:40	1
Toluene-d8 (Surr)	100		87 - 112		03/21/24 22:40	1
4-Bromofluorobenzene (Surr)	96		86 - 112		03/21/24 22:40	1

Surrogate Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

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)
192-10523-1	MW-1A	99	99	94
192-10523-2	MW-2A	99	100	96
192-10523-3	MW-3A	100	99	95
192-10523-4	MW-4A	97	101	96
192-10523-5	MW-6B	99	100	97
192-10523-6	MW-7A	98	99	97
192-10523-7	GCS-1	97	99	97
192-10523-8	Leachate	100	99	95
192-10523-9	Dup	99	99	96
192-10523-10	FB	99	99	97
192-10523-11	Equipment Blank	100	100	97
192-10523-12	Trip Blank	101	100	96
LCS 192-15224/1005	Lab Control Sample	103	99	99
MB 192-15224/7	Method Blank	101	100	95

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DBFM	TOL	BFB
		(91-109)	(87-112)	(86-112)
192-10424-C-1-E MS	Matrix Spike	101	99	99
192-10424-C-1-E MSD	Matrix Spike Duplicate	101	99	98

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

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

Lab Sample ID: MB 192-15224/7
Matrix: Water
Analysis Batch: 15224

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			03/21/24 19:41	1
Benzene	<1.5		5.0	1.5	ug/L			03/21/24 19:41	1
Acrylonitrile	<5.6		10	5.6	ug/L			03/21/24 19:41	1
Bromochloromethane	<2.0		5.0	2.0	ug/L			03/21/24 19:41	1
Bromodichloromethane	<1.1		5.0	1.1	ug/L			03/21/24 19:41	1
Bromoform	<1.3		5.0	1.3	ug/L			03/21/24 19:41	1
Bromomethane	<2.8		5.0	2.8	ug/L			03/21/24 19:41	1
2-Butanone (MEK)	<3.3		10	3.3	ug/L			03/21/24 19:41	1
Carbon disulfide	<5.8		10	5.8	ug/L			03/21/24 19:41	1
Carbon tetrachloride	<1.8		2.0	1.8	ug/L			03/21/24 19:41	1
Chlorobenzene	<1.1		5.0	1.1	ug/L			03/21/24 19:41	1
Chloroethane	<2.9		5.0	2.9	ug/L			03/21/24 19:41	1
Chloroform	<2.1		4.0	2.1	ug/L			03/21/24 19:41	1
Chloromethane	<2.7		5.0	2.7	ug/L			03/21/24 19:41	1
1,2-Dibromo-3-Chloropropane	<1.6		5.0	1.6	ug/L			03/21/24 19:41	1
Dibromochloromethane	<1.1		5.0	1.1	ug/L			03/21/24 19:41	1
1,2-Dibromoethane	<1.2		5.0	1.2	ug/L			03/21/24 19:41	1
Dibromomethane	<1.2		5.0	1.2	ug/L			03/21/24 19:41	1
1,2-Dichlorobenzene	<1.3		5.0	1.3	ug/L			03/21/24 19:41	1
1,4-Dichlorobenzene	<1.4		5.0	1.4	ug/L			03/21/24 19:41	1
1,1-Dichloroethane	<1.4		5.0	1.4	ug/L			03/21/24 19:41	1
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			03/21/24 19:41	1
1,1-Dichloroethene	<2.6		5.0	2.6	ug/L			03/21/24 19:41	1
cis-1,2-Dichloroethene	<1.0		5.0	1.0	ug/L			03/21/24 19:41	1
trans-1,2-Dichloroethene	<1.5		2.0	1.5	ug/L			03/21/24 19:41	1
1,2-Dichloropropane	<1.2		5.0	1.2	ug/L			03/21/24 19:41	1
cis-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			03/21/24 19:41	1
trans-1,3-Dichloropropene	<2.5		5.0	2.5	ug/L			03/21/24 19:41	1
Ethylbenzene	<2.0		5.0	2.0	ug/L			03/21/24 19:41	1
Iodomethane	<6.3		10	6.3	ug/L			03/21/24 19:41	1
2-Hexanone	<3.8		10	3.8	ug/L			03/21/24 19:41	1
4-Methyl-2-pentanone	<2.9		10	2.9	ug/L			03/21/24 19:41	1
Methylene Chloride	<4.7		5.0	4.7	ug/L			03/21/24 19:41	1
Styrene	<3.0		5.0	3.0	ug/L			03/21/24 19:41	1
1,1,1,2-Tetrachloroethane	<1.1		5.0	1.1	ug/L			03/21/24 19:41	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/L			03/21/24 19:41	1
Tetrachloroethene	<2.6		5.0	2.6	ug/L			03/21/24 19:41	1
Toluene	<3.2		5.0	3.2	ug/L			03/21/24 19:41	1
1,1,1-Trichloroethane	<2.2		5.0	2.2	ug/L			03/21/24 19:41	1
1,1,2-Trichloroethane	<1.3		5.0	1.3	ug/L			03/21/24 19:41	1
Trichloroethene	<2.0		5.0	2.0	ug/L			03/21/24 19:41	1
Trichlorofluoromethane	<3.2		5.0	3.2	ug/L			03/21/24 19:41	1
1,2,3-Trichloropropane	<1.5		5.0	1.5	ug/L			03/21/24 19:41	1
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/21/24 19:41	1
1,3,5-Trimethylbenzene	<1.8		5.0	1.8	ug/L			03/21/24 19:41	1
Vinyl acetate	<5.8		10	5.8	ug/L			03/21/24 19:41	1
Vinyl chloride	<1.6		2.0	1.6	ug/L			03/21/24 19:41	1
m,p-Xylenes	<5.9		10	5.9	ug/L			03/21/24 19:41	1

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QC Sample Results

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

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

Lab Sample ID: MB 192-15224/7
Matrix: Water
Analysis Batch: 15224

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			03/21/24 19:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		91 - 109		03/21/24 19:41	1
Toluene-d8 (Surr)	100		87 - 112		03/21/24 19:41	1
4-Bromofluorobenzene (Surr)	95		86 - 112		03/21/24 19:41	1

Lab Sample ID: LCS 192-15224/1005
Matrix: Water
Analysis Batch: 15224

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	100	97.1		ug/L		97	70 - 130
Benzene	50.1	46.4		ug/L		93	70 - 130
Acrylonitrile	251	247		ug/L		98	70 - 130
Bromochloromethane	50.4	47.2		ug/L		94	70 - 130
Bromodichloromethane	49.8	49.7		ug/L		100	70 - 130
Bromoform	50.6	52.8		ug/L		104	70 - 130
Bromomethane	49.6	45.7		ug/L		92	70 - 130
2-Butanone (MEK)	100	91.1		ug/L		91	70 - 130
Carbon disulfide	100	97.5		ug/L		97	70 - 130
Carbon tetrachloride	50.0	50.3		ug/L		101	70 - 130
Chlorobenzene	49.9	49.5		ug/L		99	70 - 130
Chloroethane	50.4	46.6		ug/L		93	70 - 130
Chloroform	50.5	44.6		ug/L		88	70 - 130
Chloromethane	49.4	41.7		ug/L		84	70 - 130
1,2-Dibromo-3-Chloropropane	50.2	50.6		ug/L		101	70 - 130
Dibromochloromethane	49.6	45.4		ug/L		92	70 - 130
1,2-Dibromoethane	50.1	49.5		ug/L		99	70 - 130
Dibromomethane	50.6	49.1		ug/L		97	70 - 130
1,2-Dichlorobenzene	50.0	49.0		ug/L		98	70 - 130
1,4-Dichlorobenzene	50.5	50.0		ug/L		99	70 - 130
1,1-Dichloroethane	50.0	46.5		ug/L		93	70 - 130
1,2-Dichloroethane	50.1	49.1		ug/L		98	70 - 130
1,1-Dichloroethene	50.0	48.6		ug/L		97	70 - 130
cis-1,2-Dichloroethene	50.1	49.6		ug/L		99	70 - 130
1,2-Dichloropropane	50.1	46.4		ug/L		93	70 - 130
cis-1,3-Dichloropropene	50.1	43.5		ug/L		87	70 - 130
trans-1,3-Dichloropropene	50.2	45.6		ug/L		91	70 - 130
Ethylbenzene	50.1	47.8		ug/L		95	70 - 130
Iodomethane	100	94.6		ug/L		94	70 - 130
2-Hexanone	100	94.5		ug/L		94	70 - 130
4-Methyl-2-pentanone	100	97.0		ug/L		97	70 - 130
Methylene Chloride	50.0	42.2		ug/L		84	70 - 130
Styrene	49.9	48.3		ug/L		97	70 - 130
1,1,1,2-Tetrachloroethane	49.5	48.9		ug/L		99	70 - 130
1,1,1,2,2-Tetrachloroethane	50.4	47.2		ug/L		94	70 - 130
Tetrachloroethene	50.1	49.5		ug/L		99	70 - 130

QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

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

Lab Sample ID: LCS 192-15224/1005
Matrix: Water
Analysis Batch: 15224

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	50.1	47.5		ug/L		95	70 - 130
1,1,1-Trichloroethane	50.0	49.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	50.0	47.8		ug/L		96	70 - 130
Trichloroethene	49.9	48.9		ug/L		98	70 - 130
Trichlorofluoromethane	50.1	50.3		ug/L		100	70 - 130
1,2,3-Trichloropropane	50.1	48.3		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	50.1	49.0		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	47.1		ug/L		94	70 - 130
Vinyl acetate	101	81.8		ug/L		81	70 - 130
Vinyl chloride	50.0	47.2		ug/L		94	70 - 130
m,p-Xylenes	100	98.8		ug/L		99	70 - 130
o-Xylene	50.1	48.8		ug/L		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	103		91 - 109
Toluene-d8 (Surr)	99		87 - 112
4-Bromofluorobenzene (Surr)	99		86 - 112

Lab Sample ID: 192-10424-C-1-E MS
Matrix: Water
Analysis Batch: 15224

Client Sample ID: Matrix Spike
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	4100		10000	14500		ug/L		103	70 - 130
Benzene	<150		5010	4540		ug/L		91	70 - 130
Acrylonitrile	<560		25100	24400		ug/L		97	70 - 130
Bromochloromethane	1500		5040	6110		ug/L		92	70 - 130
Bromodichloromethane	<110		4980	4920		ug/L		99	70 - 130
Bromoform	<130		5060	5190		ug/L		103	70 - 130
Bromomethane	<280		4960	4540		ug/L		91	70 - 130
2-Butanone (MEK)	<330		10000	9010		ug/L		90	70 - 130
Carbon disulfide	<580		10000	9230		ug/L		92	70 - 130
Carbon tetrachloride	<180		5000	4800		ug/L		96	70 - 130
Chlorobenzene	<110		4990	4810		ug/L		96	70 - 130
Chloroethane	<290		5040	4590		ug/L		91	70 - 130
Chloroform	<210		5050	4350		ug/L		86	70 - 130
Chloromethane	<270		4940	4120		ug/L		83	70 - 130
1,2-Dibromo-3-Chloropropane	<160		5020	4880		ug/L		97	70 - 130
Dibromochloromethane	<110		4960	4460		ug/L		90	70 - 130
1,2-Dibromoethane	<120		5010	4860		ug/L		97	70 - 130
Dibromomethane	<120		5060	4910		ug/L		97	70 - 130
1,2-Dichlorobenzene	<130		5000	4800		ug/L		96	70 - 130
1,4-Dichlorobenzene	<140		5050	4820		ug/L		95	70 - 130
1,1-Dichloroethane	<140		5000	4540		ug/L		91	70 - 130
1,2-Dichloroethane	<130		5010	4980		ug/L		100	70 - 130
1,1-Dichloroethene	<260		5000	4700		ug/L		94	70 - 130
cis-1,2-Dichloroethene	<100		5010	4880		ug/L		97	70 - 130
1,2-Dichloropropane	<120		5010	4580		ug/L		91	70 - 130

QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

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

Lab Sample ID: 192-10424-C-1-E MS
Matrix: Water
Analysis Batch: 15224

Client Sample ID: Matrix Spike
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	<120		5010	4270		ug/L		85	70 - 130
trans-1,3-Dichloropropene	<250		5020	4440		ug/L		88	70 - 130
Ethylbenzene	<200		5010	4630		ug/L		92	70 - 130
Iodomethane	<630		10000	9010		ug/L		90	70 - 130
2-Hexanone	<380		10000	9260		ug/L		92	70 - 130
4-Methyl-2-pentanone	<290		10000	9570		ug/L		96	70 - 130
Methylene Chloride	51000	E	5000	57300	E 4	ug/L		118	70 - 130
Styrene	<300		4990	4680		ug/L		94	70 - 130
1,1,1,2-Tetrachloroethane	<110		4950	4790		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	<140		5040	4690		ug/L		93	70 - 130
Tetrachloroethene	<260		5010	4810		ug/L		96	70 - 130
Toluene	<320		5010	4630		ug/L		93	70 - 130
1,1,1-Trichloroethane	<220		5000	4840		ug/L		97	70 - 130
1,1,2-Trichloroethane	<130		5000	4740		ug/L		95	70 - 130
Trichloroethene	<200		4990	4760		ug/L		95	70 - 130
Trichlorofluoromethane	<320		5010	4850		ug/L		97	70 - 130
1,2,3-Trichloropropane	<150		5010	4770		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	<180		5010	4690		ug/L		94	70 - 130
1,3,5-Trimethylbenzene	<180		5000	4550		ug/L		91	70 - 130
Vinyl acetate	<580		10100	7930		ug/L		79	70 - 130
Vinyl chloride	<160		5000	4550		ug/L		91	70 - 130
m,p-Xylenes	<590		10000	9550		ug/L		95	70 - 130
o-Xylene	<180		5010	4740		ug/L		95	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	101		91 - 109
Toluene-d8 (Surr)	99		87 - 112
4-Bromofluorobenzene (Surr)	99		86 - 112

Lab Sample ID: 192-10424-C-1-E MSD
Matrix: Water
Analysis Batch: 15224

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	4100		10000	14400		ug/L		102	70 - 130	1	20
Benzene	<150		5010	4640		ug/L		93	70 - 130	2	20
Acrylonitrile	<560		25100	24500		ug/L		98	70 - 130	1	20
Bromochloromethane	1500		5040	6060		ug/L		91	70 - 130	1	20
Bromodichloromethane	<110		4980	4990		ug/L		100	70 - 130	1	20
Bromoform	<130		5060	5230		ug/L		104	70 - 130	1	20
Bromomethane	<280		4960	4680		ug/L		94	70 - 130	3	20
2-Butanone (MEK)	<330		10000	8970		ug/L		90	70 - 130	0	20
Carbon disulfide	<580		10000	9540		ug/L		95	70 - 130	3	20
Carbon tetrachloride	<180		5000	4990		ug/L		100	70 - 130	4	20
Chlorobenzene	<110		4990	4980		ug/L		100	70 - 130	3	20
Chloroethane	<290		5040	4720		ug/L		94	70 - 130	3	20
Chloroform	<210		5050	4460		ug/L		88	70 - 130	2	20
Chloromethane	<270		4940	4200		ug/L		85	70 - 130	2	20

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QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

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

Lab Sample ID: 192-10424-C-1-E MSD
Matrix: Water
Analysis Batch: 15224

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,2-Dibromo-3-Chloropropane	<160		5020	4990		ug/L		99	70 - 130	2	20
Dibromochloromethane	<110		4960	4550		ug/L		92	70 - 130	2	20
1,2-Dibromoethane	<120		5010	4960		ug/L		99	70 - 130	2	20
Dibromomethane	<120		5060	4980		ug/L		99	70 - 130	1	20
1,2-Dichlorobenzene	<130		5000	4950		ug/L		99	70 - 130	3	20
1,4-Dichlorobenzene	<140		5050	4980		ug/L		99	70 - 130	3	20
1,1-Dichloroethane	<140		5000	4610		ug/L		92	70 - 130	2	20
1,2-Dichloroethane	<130		5010	5010		ug/L		100	70 - 130	1	20
1,1-Dichloroethene	<260		5000	4780		ug/L		96	70 - 130	2	20
cis-1,2-Dichloroethene	<100		5010	4970		ug/L		99	70 - 130	2	20
1,2-Dichloropropane	<120		5010	4690		ug/L		94	70 - 130	2	20
cis-1,3-Dichloropropene	<120		5010	4310		ug/L		86	70 - 130	1	20
trans-1,3-Dichloropropene	<250		5020	4500		ug/L		90	70 - 130	1	20
Ethylbenzene	<200		5010	4780		ug/L		95	70 - 130	3	20
Iodomethane	<630		10000	9120		ug/L		91	70 - 130	1	20
2-Hexanone	<380		10000	9260		ug/L		92	70 - 130	0	20
4-Methyl-2-pentanone	<290		10000	9630		ug/L		96	70 - 130	1	20
Methylene Chloride	51000	E	5000	55900	E 4	ug/L		91	70 - 130	2	20
Styrene	<300		4990	4810		ug/L		96	70 - 130	3	20
1,1,1,2-Tetrachloroethane	<110		4950	4900		ug/L		99	70 - 130	2	20
1,1,2,2-Tetrachloroethane	<140		5040	4750		ug/L		94	70 - 130	1	20
Tetrachloroethene	<260		5010	4980		ug/L		100	70 - 130	4	20
Toluene	<320		5010	4730		ug/L		95	70 - 130	2	20
1,1,1-Trichloroethane	<220		5000	4950		ug/L		99	70 - 130	2	20
1,1,2-Trichloroethane	<130		5000	4830		ug/L		97	70 - 130	2	20
Trichloroethene	<200		4990	4880		ug/L		98	70 - 130	3	20
Trichlorofluoromethane	<320		5010	5030		ug/L		100	70 - 130	4	20
1,2,3-Trichloropropane	<150		5010	4770		ug/L		95	70 - 130	0	20
1,2,4-Trimethylbenzene	<180		5010	4880		ug/L		97	70 - 130	4	20
1,3,5-Trimethylbenzene	<180		5000	4720		ug/L		94	70 - 130	4	20
Vinyl acetate	<580		10100	8050		ug/L		80	70 - 130	1	20
Vinyl chloride	<160		5000	4690		ug/L		94	70 - 130	3	20
m,p-Xylenes	<590		10000	9950		ug/L		99	70 - 130	4	20
o-Xylene	<180		5010	4890		ug/L		98	70 - 130	3	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	101		91 - 109
Toluene-d8 (Surr)	99		87 - 112
4-Bromofluorobenzene (Surr)	98		86 - 112

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 192-15190/3
Matrix: Water
Analysis Batch: 15190

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.15		0.20	0.15	mg/L			03/21/24 11:21	1
Sulfate	<0.12		0.20	0.12	mg/L			03/21/24 11:21	1

Eurofins Arkansas

QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: LCS 192-15190/4
Matrix: Water
Analysis Batch: 15190

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	24.8		mg/L		99	90 - 110
Sulfate	25.0	25.4		mg/L		102	90 - 110

Lab Sample ID: 192-10551-A-1 MS
Matrix: Water
Analysis Batch: 15190

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	41		2500	2540		mg/L		100	80 - 120
Sulfate	52		2500	2630		mg/L		103	80 - 120

Lab Sample ID: 192-10551-A-1 MSD
Matrix: Water
Analysis Batch: 15190

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	Limit
Chloride	41		2500	2550		mg/L		100	80 - 120	0	10
Sulfate	52		2500	2640		mg/L		103	80 - 120	0	10

Lab Sample ID: MB 192-15263/3
Matrix: Water
Analysis Batch: 15263

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			03/22/24 13:55	1
Sulfate	<0.12		0.20	0.12	mg/L			03/22/24 13:55	1

Lab Sample ID: LCS 192-15263/4
Matrix: Water
Analysis Batch: 15263

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	24.5		mg/L		98	90 - 110
Sulfate	25.0	25.2		mg/L		101	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 192-15639/1-A
Matrix: Water
Analysis Batch: 15674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0029		0.010	0.0029	mg/L		04/01/24 10:38	04/01/24 13:11	1
Arsenic	<0.00035		0.00050	0.00035	mg/L		04/01/24 10:38	04/01/24 13:11	1
Barium	<0.00026		0.0020	0.00026	mg/L		04/01/24 10:38	04/01/24 13:11	1
Beryllium	<0.000098		0.00050	0.000098	mg/L		04/01/24 10:38	04/01/24 13:11	1
Cadmium	<0.000028		0.00050	0.000028	mg/L		04/01/24 10:38	04/01/24 13:11	1
Chromium	<0.00047		0.00050	0.00047	mg/L		04/01/24 10:38	04/01/24 13:11	1
Cobalt	<0.00072		0.010	0.00072	mg/L		04/01/24 10:38	04/01/24 13:11	1
Copper	<0.00028		0.00050	0.00028	mg/L		04/01/24 10:38	04/01/24 13:11	1

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QC Sample Results

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

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

Lab Sample ID: MB 192-15639/1-A
Matrix: Water
Analysis Batch: 15674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.014		0.050	0.014	mg/L		04/01/24 10:38	04/01/24 13:11	1
Lead	<0.00021		0.00050	0.00021	mg/L		04/01/24 10:38	04/01/24 13:11	1
Manganese	<0.00034		0.020	0.00034	mg/L		04/01/24 10:38	04/01/24 13:11	1
Nickel	<0.00019		0.00050	0.00019	mg/L		04/01/24 10:38	04/01/24 13:11	1
Selenium	<0.00072		0.0020	0.00072	mg/L		04/01/24 10:38	04/01/24 13:11	1
Silver	<0.000069		0.00050	0.000069	mg/L		04/01/24 10:38	04/01/24 13:11	1
Thallium	<0.000045		0.00050	0.000045	mg/L		04/01/24 10:38	04/01/24 13:11	1
Vanadium	<0.0016		0.010	0.0016	mg/L		04/01/24 10:38	04/01/24 13:11	1
Zinc	<0.0018		0.010	0.0018	mg/L		04/01/24 10:38	04/01/24 13:11	1

Lab Sample ID: LCS 192-15639/2-A
Matrix: Water
Analysis Batch: 15674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0200	0.0197		mg/L		98	85 - 115
Arsenic	0.0200	0.0190		mg/L		95	85 - 115
Barium	0.0200	0.0197		mg/L		99	85 - 115
Beryllium	0.0200	0.0201		mg/L		101	85 - 115
Cadmium	0.0200	0.0201		mg/L		101	85 - 115
Chromium	0.0200	0.0199		mg/L		99	85 - 115
Cobalt	0.0200	0.0199		mg/L		99	85 - 115
Copper	0.0200	0.0201		mg/L		101	85 - 115
Iron	2.00	1.90		mg/L		95	85 - 115
Lead	0.0200	0.0203		mg/L		101	85 - 115
Manganese	0.0200	0.0198	J	mg/L		99	85 - 115
Nickel	0.0200	0.0202		mg/L		101	85 - 115
Selenium	0.0200	0.0204		mg/L		102	85 - 115
Silver	0.0200	0.0203		mg/L		101	85 - 115
Thallium	0.0200	0.0203		mg/L		101	85 - 115
Vanadium	0.0200	0.0192		mg/L		96	85 - 115
Zinc	0.0200	0.0202		mg/L		101	85 - 115

Lab Sample ID: 192-10523-10 MS
Matrix: Water
Analysis Batch: 15674

Client Sample ID: FB
Prep Type: Total/NA
Prep Batch: 15639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0029		0.0200	0.0199		mg/L		100	75 - 125
Arsenic	<0.00035		0.0200	0.0189		mg/L		94	75 - 125
Barium	<0.00026		0.0200	0.0199		mg/L		99	75 - 125
Beryllium	<0.000098		0.0200	0.0201		mg/L		101	75 - 125
Cadmium	<0.000028		0.0200	0.0203		mg/L		101	75 - 125
Chromium	<0.00047		0.0200	0.0199		mg/L		100	75 - 125
Cobalt	<0.00072		0.0200	0.0200		mg/L		100	75 - 125
Copper	<0.00028		0.0200	0.0202		mg/L		101	75 - 125
Iron	<0.014		2.00	1.94		mg/L		97	75 - 125
Lead	<0.00021		0.0200	0.0202		mg/L		101	75 - 125
Manganese	<0.00034		0.0200	0.0200		mg/L		100	75 - 125

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QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

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

Lab Sample ID: 192-10523-10 MS
Matrix: Water
Analysis Batch: 15674

Client Sample ID: FB
Prep Type: Total/NA
Prep Batch: 15639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	<0.00019		0.0200	0.0203		mg/L		101	75 - 125
Selenium	<0.00072		0.0200	0.0200		mg/L		100	75 - 125
Silver	<0.000069		0.0200	0.0204		mg/L		102	75 - 125
Thallium	<0.000045		0.0200	0.0203		mg/L		102	75 - 125
Vanadium	<0.0016		0.0200	0.0189		mg/L		94	75 - 125
Zinc	<0.0018		0.0200	0.0202		mg/L		101	75 - 125

Lab Sample ID: 192-10523-10 MSD
Matrix: Water
Analysis Batch: 15674

Client Sample ID: FB
Prep Type: Total/NA
Prep Batch: 15639

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0029		0.0200	0.0205		mg/L		102	75 - 125	3	20
Arsenic	<0.00035		0.0200	0.0190		mg/L		95	75 - 125	1	20
Barium	<0.00026		0.0200	0.0198		mg/L		99	75 - 125	1	20
Beryllium	<0.000098		0.0200	0.0201		mg/L		101	75 - 125	0	20
Cadmium	<0.000028		0.0200	0.0203		mg/L		102	75 - 125	0	20
Chromium	<0.00047		0.0200	0.0205		mg/L		102	75 - 125	3	20
Cobalt	<0.00072		0.0200	0.0201		mg/L		101	75 - 125	0	20
Copper	<0.00028		0.0200	0.0202		mg/L		101	75 - 125	0	20
Iron	<0.014		2.00	1.94		mg/L		97	75 - 125	0	20
Lead	<0.00021		0.0200	0.0202		mg/L		101	75 - 125	0	20
Manganese	<0.00034		0.0200	0.0202		mg/L		101	75 - 125	1	20
Nickel	<0.00019		0.0200	0.0205		mg/L		103	75 - 125	1	20
Selenium	<0.00072		0.0200	0.0202		mg/L		101	75 - 125	1	20
Silver	<0.000069		0.0200	0.0205		mg/L		102	75 - 125	0	20
Thallium	<0.000045		0.0200	0.0203		mg/L		102	75 - 125	0	20
Vanadium	<0.0016		0.0200	0.0193		mg/L		96	75 - 125	2	20
Zinc	<0.0018		0.0200	0.0204		mg/L		102	75 - 125	1	20

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

Lab Sample ID: MB 192-15227/1
Matrix: Water
Analysis Batch: 15227

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			03/22/24 09:23	1

Lab Sample ID: LCS 192-15227/2
Matrix: Water
Analysis Batch: 15227

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		101	85 - 115

QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

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

Lab Sample ID: 192-10558-A-2 DU
Matrix: Water
Analysis Batch: 15227

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	1300		1310		mg/L		1	10

Method: 4500 S2 G-2011 - Sulfide, Total

Lab Sample ID: MB 192-15292/1
Matrix: Water
Analysis Batch: 15292

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			03/25/24 10:51	1

Lab Sample ID: LCS 192-15292/2
Matrix: Water
Analysis Batch: 15292

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	0.103		mg/L		103	87 - 125

Lab Sample ID: 192-10482-C-1 MS
Matrix: Water
Analysis Batch: 15292

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	0.126		mg/L		126	86 - 132

Lab Sample ID: 192-10482-C-1 MSD
Matrix: Water
Analysis Batch: 15292

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	0.128		mg/L		128	86 - 132	1	10

Method: SM 5310C - TOC

Lab Sample ID: MB 860-152364/38
Matrix: Water
Analysis Batch: 152364

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	<0.50		1.0	0.50	mg/L			03/28/24 21:52	1

Lab Sample ID: MB 860-152364/5
Matrix: Water
Analysis Batch: 152364

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	<0.50		1.0	0.50	mg/L			03/28/24 13:31	1

QC Sample Results

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 860-152364/39
Matrix: Water
Analysis Batch: 152364

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	5.00	4.96		mg/L		99	90 - 110

Lab Sample ID: LCS 860-152364/6
Matrix: Water
Analysis Batch: 152364

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	5.00	4.84		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-152364/40
Matrix: Water
Analysis Batch: 152364

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	5.00	4.94		mg/L		99	90 - 110	0	15

Lab Sample ID: LCSD 860-152364/7
Matrix: Water
Analysis Batch: 152364

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	5.00	4.89		mg/L		98	90 - 110	1	15

Lab Sample ID: 192-10523-4 MS
Matrix: Water
Analysis Batch: 152364

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.4		5.00	6.12		mg/L		95	90 - 110

Lab Sample ID: 192-10523-4 MSD
Matrix: Water
Analysis Batch: 152364

Client Sample ID: MW-4A
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	1.4		5.00	6.16		mg/L		95	90 - 110	1	15

Lab Sample ID: 192-10523-7 MS
Matrix: Water
Analysis Batch: 152364

Client Sample ID: GCS-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	2.8	F1	5.00	7.22	F1	mg/L		88	90 - 110

Lab Sample ID: 192-10523-7 MSD
Matrix: Water
Analysis Batch: 152364

Client Sample ID: GCS-1
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	2.8	F1	5.00	7.25	F1	mg/L		89	90 - 110	0	15

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QC Sample Results

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Method: SM 5310C - TOC

Lab Sample ID: 192-10523-9 MS
Matrix: Water
Analysis Batch: 152364

Client Sample ID: Dup
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.5		5.00	6.16		mg/L		93	90 - 110

Lab Sample ID: 192-10523-9 MSD
Matrix: Water
Analysis Batch: 152364

Client Sample ID: Dup
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	1.5		5.00	6.20		mg/L		94	90 - 110	1	15

Lab Sample ID: 192-10523-10 MS
Matrix: Water
Analysis Batch: 152364

Client Sample ID: FB
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.0		5.00	5.69		mg/L		94	90 - 110

Lab Sample ID: 192-10523-10 MSD
Matrix: Water
Analysis Batch: 152364

Client Sample ID: FB
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	1.0		5.00	5.76		mg/L		95	90 - 110	1	15

QC Association Summary

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

GC/MS VOA

Leach Batch: 13957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10424-C-1-E MS	Matrix Spike	TCLP	Water	1311	
192-10424-C-1-E MSD	Matrix Spike Duplicate	TCLP	Water	1311	

Analysis Batch: 15224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10523-1	MW-1A	Total/NA	Water	8260D	
192-10523-2	MW-2A	Total/NA	Water	8260D	
192-10523-3	MW-3A	Total/NA	Water	8260D	
192-10523-4	MW-4A	Total/NA	Water	8260D	
192-10523-5	MW-6B	Total/NA	Water	8260D	
192-10523-6	MW-7A	Total/NA	Water	8260D	
192-10523-7	GCS-1	Total/NA	Water	8260D	
192-10523-8	Leachate	Total/NA	Water	8260D	
192-10523-9	Dup	Total/NA	Water	8260D	
192-10523-10	FB	Total/NA	Water	8260D	
192-10523-11	Equipment Blank	Total/NA	Water	8260D	
192-10523-12	Trip Blank	Total/NA	Water	8260D	
MB 192-15224/7	Method Blank	Total/NA	Water	8260D	
LCS 192-15224/1005	Lab Control Sample	Total/NA	Water	8260D	
192-10424-C-1-E MS	Matrix Spike	TCLP	Water	8260D	13957
192-10424-C-1-E MSD	Matrix Spike Duplicate	TCLP	Water	8260D	13957

HPLC/IC

Analysis Batch: 15190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10523-1	MW-1A	Total/NA	Water	9056A	
192-10523-2	MW-2A	Total/NA	Water	9056A	
192-10523-3	MW-3A	Total/NA	Water	9056A	
192-10523-4	MW-4A	Total/NA	Water	9056A	
192-10523-8	Leachate	Total/NA	Water	9056A	
192-10523-9	Dup	Total/NA	Water	9056A	
192-10523-10	FB	Total/NA	Water	9056A	
MB 192-15190/3	Method Blank	Total/NA	Water	9056A	
LCS 192-15190/4	Lab Control Sample	Total/NA	Water	9056A	
192-10551-A-1 MS	Matrix Spike	Total/NA	Water	9056A	
192-10551-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	

Analysis Batch: 15263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10523-5	MW-6B	Total/NA	Water	9056A	
192-10523-6	MW-7A	Total/NA	Water	9056A	
192-10523-7	GCS-1	Total/NA	Water	9056A	
MB 192-15263/3	Method Blank	Total/NA	Water	9056A	
LCS 192-15263/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 15639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10523-1	MW-1A	Total/NA	Water	3010A	
192-10523-2	MW-2A	Total/NA	Water	3010A	

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QC Association Summary

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Metals (Continued)

Prep Batch: 15639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10523-3	MW-3A	Total/NA	Water	3010A	
192-10523-4	MW-4A	Total/NA	Water	3010A	
192-10523-5	MW-6B	Total/NA	Water	3010A	
192-10523-6	MW-7A	Total/NA	Water	3010A	
192-10523-7	GCS-1	Total/NA	Water	3010A	
192-10523-8	Leachate	Total/NA	Water	3010A	
192-10523-9	Dup	Total/NA	Water	3010A	
192-10523-10	FB	Total/NA	Water	3010A	
MB 192-15639/1-A	Method Blank	Total/NA	Water	3010A	
LCS 192-15639/2-A	Lab Control Sample	Total/NA	Water	3010A	
192-10523-10 MS	FB	Total/NA	Water	3010A	
192-10523-10 MSD	FB	Total/NA	Water	3010A	

Analysis Batch: 15673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10523-3	MW-3A	Total/NA	Water	6020B	15639
192-10523-4	MW-4A	Total/NA	Water	6020B	15639
192-10523-8	Leachate	Total/NA	Water	6020B	15639

Analysis Batch: 15674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10523-1	MW-1A	Total/NA	Water	6020B	15639
192-10523-1	MW-1A	Total/NA	Water	6020B	15639
192-10523-2	MW-2A	Total/NA	Water	6020B	15639
192-10523-2	MW-2A	Total/NA	Water	6020B	15639
192-10523-3	MW-3A	Total/NA	Water	6020B	15639
192-10523-3	MW-3A	Total/NA	Water	6020B	15639
192-10523-4	MW-4A	Total/NA	Water	6020B	15639
192-10523-4	MW-4A	Total/NA	Water	6020B	15639
192-10523-5	MW-6B	Total/NA	Water	6020B	15639
192-10523-5	MW-6B	Total/NA	Water	6020B	15639
192-10523-5	MW-6B	Total/NA	Water	6020B	15639
192-10523-6	MW-7A	Total/NA	Water	6020B	15639
192-10523-6	MW-7A	Total/NA	Water	6020B	15639
192-10523-7	GCS-1	Total/NA	Water	6020B	15639
192-10523-7	GCS-1	Total/NA	Water	6020B	15639
192-10523-7	GCS-1	Total/NA	Water	6020B	15639
192-10523-7	GCS-1	Total/NA	Water	6020B	15639
192-10523-8	Leachate	Total/NA	Water	6020B	15639
192-10523-8	Leachate	Total/NA	Water	6020B	15639
192-10523-8	Leachate	Total/NA	Water	6020B	15639
192-10523-9	Dup	Total/NA	Water	6020B	15639
192-10523-9	Dup	Total/NA	Water	6020B	15639
192-10523-10	FB	Total/NA	Water	6020B	15639
MB 192-15639/1-A	Method Blank	Total/NA	Water	6020B	15639
LCS 192-15639/2-A	Lab Control Sample	Total/NA	Water	6020B	15639
192-10523-10 MS	FB	Total/NA	Water	6020B	15639
192-10523-10 MSD	FB	Total/NA	Water	6020B	15639

QC Association Summary

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

General Chemistry

Analysis Batch: 15227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10523-1	MW-1A	Total/NA	Water	2540C - 2015	
192-10523-2	MW-2A	Total/NA	Water	2540C - 2015	
192-10523-3	MW-3A	Total/NA	Water	2540C - 2015	
192-10523-4	MW-4A	Total/NA	Water	2540C - 2015	
192-10523-5	MW-6B	Total/NA	Water	2540C - 2015	
192-10523-6	MW-7A	Total/NA	Water	2540C - 2015	
192-10523-7	GCS-1	Total/NA	Water	2540C - 2015	
192-10523-8	Leachate	Total/NA	Water	2540C - 2015	
192-10523-9	Dup	Total/NA	Water	2540C - 2015	
192-10523-10	FB	Total/NA	Water	2540C - 2015	
MB 192-15227/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 192-15227/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
192-10558-A-2 DU	Duplicate	Total/NA	Water	2540C - 2015	

Analysis Batch: 15292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10523-1	MW-1A	Total/NA	Water	4500 S2 G-2011	
192-10523-2	MW-2A	Total/NA	Water	4500 S2 G-2011	
192-10523-3	MW-3A	Total/NA	Water	4500 S2 G-2011	
192-10523-4	MW-4A	Total/NA	Water	4500 S2 G-2011	
192-10523-5	MW-6B	Total/NA	Water	4500 S2 G-2011	
192-10523-6	MW-7A	Total/NA	Water	4500 S2 G-2011	
192-10523-7	GCS-1	Total/NA	Water	4500 S2 G-2011	
192-10523-8	Leachate	Total/NA	Water	4500 S2 G-2011	
192-10523-9	Dup	Total/NA	Water	4500 S2 G-2011	
192-10523-10	FB	Total/NA	Water	4500 S2 G-2011	
MB 192-15292/1	Method Blank	Total/NA	Water	4500 S2 G-2011	
LCS 192-15292/2	Lab Control Sample	Total/NA	Water	4500 S2 G-2011	
192-10482-C-1 MS	Matrix Spike	Total/NA	Water	4500 S2 G-2011	
192-10482-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 G-2011	

Analysis Batch: 152364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10523-1	MW-1A	Total/NA	Water	SM 5310C	
192-10523-2	MW-2A	Total/NA	Water	SM 5310C	
192-10523-3	MW-3A	Total/NA	Water	SM 5310C	
192-10523-4	MW-4A	Total/NA	Water	SM 5310C	
192-10523-5	MW-6B	Total/NA	Water	SM 5310C	
192-10523-6	MW-7A	Total/NA	Water	SM 5310C	
192-10523-7	GCS-1	Total/NA	Water	SM 5310C	
192-10523-8	Leachate	Total/NA	Water	SM 5310C	
192-10523-9	Dup	Total/NA	Water	SM 5310C	
192-10523-10	FB	Total/NA	Water	SM 5310C	
MB 860-152364/38	Method Blank	Total/NA	Water	SM 5310C	
MB 860-152364/5	Method Blank	Total/NA	Water	SM 5310C	
LCS 860-152364/39	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 860-152364/6	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 860-152364/40	Lab Control Sample Dup	Total/NA	Water	SM 5310C	
LCSD 860-152364/7	Lab Control Sample Dup	Total/NA	Water	SM 5310C	
192-10523-4 MS	MW-4A	Total/NA	Water	SM 5310C	
192-10523-4 MSD	MW-4A	Total/NA	Water	SM 5310C	

Eurofins Arkansas

QC Association Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

General Chemistry (Continued)

Analysis Batch: 152364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-10523-7 MS	GCS-1	Total/NA	Water	SM 5310C	
192-10523-7 MSD	GCS-1	Total/NA	Water	SM 5310C	
192-10523-9 MS	Dup	Total/NA	Water	SM 5310C	
192-10523-9 MSD	Dup	Total/NA	Water	SM 5310C	
192-10523-10 MS	FB	Total/NA	Water	SM 5310C	
192-10523-10 MSD	FB	Total/NA	Water	SM 5310C	

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

Lab Chronicle

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-1A
Date Collected: 03/20/24 14:15
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/21/24 23:10
Total/NA	Analysis	9056A		10	15190	LC5	EET ARK	03/21/24 17:37
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15674	EQ5	EET ARK	04/01/24 14:26
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		5	15674	EQ5	EET ARK	04/01/24 15:47
Total/NA	Analysis	2540C - 2015		1	15227	JD	EET ARK	03/22/24 09:23
Total/NA	Analysis	4500 S2 G-2011		1	15292	JAM	EET ARK	03/25/24 10:51
Total/NA	Analysis	SM 5310C		1	152364	YG	EET HOU	03/28/24 18:35

Client Sample ID: MW-2A
Date Collected: 03/19/24 12:07
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/21/24 23:39
Total/NA	Analysis	9056A		10	15190	LC5	EET ARK	03/21/24 17:58
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15674	EQ5	EET ARK	04/01/24 14:30
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		5	15674	EQ5	EET ARK	04/01/24 15:51
Total/NA	Analysis	2540C - 2015		1	15227	JD	EET ARK	03/22/24 09:23
Total/NA	Analysis	4500 S2 G-2011		1	15292	JAM	EET ARK	03/25/24 10:51
Total/NA	Analysis	SM 5310C		1	152364	YG	EET HOU	03/28/24 19:20

Client Sample ID: MW-3A
Date Collected: 03/19/24 13:20
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/22/24 00:09
Total/NA	Analysis	9056A		10	15190	LC5	EET ARK	03/21/24 18:18
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15673	EQ5	EET ARK	04/01/24 14:34
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15674	EQ5	EET ARK	04/01/24 14:34
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		5	15674	EQ5	EET ARK	04/01/24 15:55
Total/NA	Analysis	2540C - 2015		1	15227	JD	EET ARK	03/22/24 09:23
Total/NA	Analysis	4500 S2 G-2011		1	15292	JAM	EET ARK	03/25/24 10:51
Total/NA	Analysis	SM 5310C		1	152364	YG	EET HOU	03/28/24 19:36

Lab Chronicle

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: MW-4A
Date Collected: 03/19/24 14:28
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/22/24 00:39
Total/NA	Analysis	9056A		10	15190	LC5	EET ARK	03/21/24 18:39
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15673	EQ5	EET ARK	04/01/24 14:37
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15674	EQ5	EET ARK	04/01/24 14:37
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		5	15674	EQ5	EET ARK	04/01/24 15:58
Total/NA	Analysis	2540C - 2015		1	15227	JD	EET ARK	03/22/24 09:23
Total/NA	Analysis	4500 S2 G-2011		1	15292	JAM	EET ARK	03/25/24 10:51
Total/NA	Analysis	SM 5310C		1	152364	YG	EET HOU	03/28/24 19:51

Client Sample ID: MW-6B
Date Collected: 03/20/24 10:28
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/22/24 01:09
Total/NA	Analysis	9056A		1	15263	LC5	EET ARK	03/22/24 16:20
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15674	EQ5	EET ARK	04/01/24 14:41
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		100	15674	EQ5	EET ARK	04/01/24 16:02
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		5	15674	EQ5	EET ARK	04/01/24 16:09
Total/NA	Analysis	2540C - 2015		1	15227	JD	EET ARK	03/22/24 09:23
Total/NA	Analysis	4500 S2 G-2011		1	15292	JAM	EET ARK	03/25/24 10:51
Total/NA	Analysis	SM 5310C		10	152364	YG	EET HOU	03/29/24 01:10

Client Sample ID: MW-7A
Date Collected: 03/20/24 08:45
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/22/24 01:39
Total/NA	Analysis	9056A		1	15263	LC5	EET ARK	03/22/24 16:41
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15674	EQ5	EET ARK	04/01/24 14:49
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		5	15674	EQ5	EET ARK	04/01/24 16:24
Total/NA	Analysis	2540C - 2015		1	15227	JD	EET ARK	03/22/24 09:23
Total/NA	Analysis	4500 S2 G-2011		1	15292	JAM	EET ARK	03/25/24 10:51
Total/NA	Analysis	SM 5310C		1	152364	YG	EET HOU	03/29/24 00:55

Lab Chronicle

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: GCS-1
Date Collected: 03/20/24 08:05
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/22/24 02:09
Total/NA	Analysis	9056A		1	15263	LC5	EET ARK	03/22/24 17:02
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15674	EQ5	EET ARK	04/01/24 14:52
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1000	15674	EQ5	EET ARK	04/01/24 16:28
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		100	15674	EQ5	EET ARK	04/01/24 16:32
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		5	15674	EQ5	EET ARK	04/01/24 16:35
Total/NA	Analysis	2540C - 2015		1	15227	JD	EET ARK	03/22/24 09:23
Total/NA	Analysis	4500 S2 G-2011		1	15292	JAM	EET ARK	03/25/24 10:51
Total/NA	Analysis	SM 5310C		1	152364	YG	EET HOU	03/28/24 20:36

Client Sample ID: Leachate
Date Collected: 03/20/24 12:30
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/22/24 02:39
Total/NA	Analysis	9056A		10	15190	LC5	EET ARK	03/21/24 20:02
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15673	EQ5	EET ARK	04/01/24 14:56
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15674	EQ5	EET ARK	04/01/24 14:56
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		100	15674	EQ5	EET ARK	04/01/24 16:43
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		5	15674	EQ5	EET ARK	04/01/24 16:46
Total/NA	Analysis	2540C - 2015		1	15227	JD	EET ARK	03/22/24 09:23
Total/NA	Analysis	4500 S2 G-2011		50	15292	JAM	EET ARK	03/25/24 10:51
Total/NA	Analysis	SM 5310C		10	152364	YG	EET HOU	03/29/24 01:25

Client Sample ID: Dup
Date Collected: 03/19/24 12:10
Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/22/24 03:09
Total/NA	Analysis	9056A		10	15190	LC5	EET ARK	03/21/24 20:23
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15674	EQ5	EET ARK	04/01/24 15:03
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		5	15674	EQ5	EET ARK	04/01/24 16:50

Eurofins Arkansas

Lab Chronicle

Client: Terracon Consultants Inc
 Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Client Sample ID: Dup

Date Collected: 03/19/24 12:10

Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540C - 2015		1	15227	JD	EET ARK	03/22/24 09:23
Total/NA	Analysis	4500 S2 G-2011		1	15292	JAM	EET ARK	03/25/24 10:51
Total/NA	Analysis	SM 5310C		1	152364	YG	EET HOU	03/28/24 23:24

Client Sample ID: FB

Date Collected: 03/20/24 13:00

Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/22/24 03:39
Total/NA	Analysis	9056A		1	15190	LC5	EET ARK	03/21/24 14:51
Total/NA	Prep	3010A			15639	EQ5	EET ARK	04/01/24 10:38
Total/NA	Analysis	6020B		1	15674	EQ5	EET ARK	04/01/24 13:31
Total/NA	Analysis	2540C - 2015		1	15227	JD	EET ARK	03/22/24 09:23
Total/NA	Analysis	4500 S2 G-2011		1	15292	JAM	EET ARK	03/25/24 10:51
Total/NA	Analysis	SM 5310C		1	152364	YG	EET HOU	03/28/24 22:38

Client Sample ID: Equipment Blank

Date Collected: 03/20/24 13:10

Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/21/24 22:10

Client Sample ID: Trip Blank

Date Collected: 03/20/24 00:00

Date Received: 03/20/24 15:55

Lab Sample ID: 192-10523-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	15224	LC5	EET ARK	03/21/24 22:40

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060
 EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

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

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

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
SM 5310C	TOC	SM	EET HOU
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

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Terracon Consultants Inc
Project/Site: Groundwater - Landfill

Job ID: 192-10523-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
192-10523-1	MW-1A	Water	03/20/24 14:15	03/20/24 15:55
192-10523-2	MW-2A	Water	03/19/24 12:07	03/20/24 15:55
192-10523-3	MW-3A	Water	03/19/24 13:20	03/20/24 15:55
192-10523-4	MW-4A	Water	03/19/24 14:28	03/20/24 15:55
192-10523-5	MW-6B	Water	03/20/24 10:28	03/20/24 15:55
192-10523-6	MW-7A	Water	03/20/24 08:45	03/20/24 15:55
192-10523-7	GCS-1	Water	03/20/24 08:05	03/20/24 15:55
192-10523-8	Leachate	Water	03/20/24 12:30	03/20/24 15:55
192-10523-9	Dup	Water	03/19/24 12:10	03/20/24 15:55
192-10523-10	FB	Water	03/20/24 13:00	03/20/24 15:55
192-10523-11	Equipment Blank	Water	03/20/24 13:10	03/20/24 15:55
192-10523-12	Trip Blank	Water	03/20/24 00:00	03/20/24 15:55



Eurofins Arkansas

8600 Kanis Rd
 Little Rock, AR 72204
 Phone (501) 224-5060 Phone (501) 224-5075

Chain of Custody Record



109



Client Information		Sampler: <u>Wes Williams</u>		Lab PM:		Carrier Tracking No(s)		COC No:	
Client Contact: <u>City of Little Rock LIF</u>		Phone: <u>501 350-8827</u>		E-Mail:		State of Origin:		Page:	
Company: <u>TERRACON</u>				PWSID:		Analysis Requested			
Address: <u>25809 I 30 South</u>		Due Date Requested:		TAT Requested (days):					
City: <u>Little Rock AR</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO#:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) <u>APP I VOC's</u> <u>APP I Metals + Fe + Mn</u> <u>APP I TOC</u> <u>APP I 504 TDS</u> <u>Sulfide</u>		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify) Other:	
State Zip: <u>ARKANSAS</u>		WVO #:		Project #:					
Phone: <u>501-350-5040</u>		SSOW#:		Project Name: <u>CITY OF LITTLE ROCK</u>					
Email: <u>djaros@terracon.com</u>		Sample Date		Sample Time					
Project Name: <u>CITY OF LITTLE ROCK</u>		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)					
Site: <u>LAND FILL</u>		Preservation Code		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	
Sample Identification								Special Instructions/Note:	
<u>MW-1A</u>		<u>3-20-24</u>		<u>1415</u>					
<u>MW-2A</u>		<u>3-19-24</u>		<u>1207</u>					
<u>MW-3A</u>		<u>3-19-24</u>		<u>1320</u>					
<u>MW-4A</u>		<u>3-19-24</u>		<u>1428</u>					
<u>MW-6B</u>		<u>3-20-24</u>		<u>1028</u>					
<u>MW-7A</u>		<u>3-20-24</u>		<u>845</u>					
<u>GCS-1</u>		<u>3-20-24</u>		<u>805</u>					
<u>Leachate</u>		<u>3-20-24</u>		<u>1230</u>					
<u>DWP</u>		<u>3-19-24</u>		<u>1210</u>					
<u>FB</u>		<u>3-20-24</u>		<u>1308</u>					
<u>Equipment Blank</u>		<u>3-20-24</u>		<u>1310</u>					
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements.				
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:		
Relinquished by: <u>Wes Williams</u>			Date/Time: <u>3-20-24 1555</u>		Company:		Received by: <u>Greg Hayes</u>		
Relinquished by:			Date/Time:		Company:		Date/Time: <u>3-20-24 1555</u>		
Relinquished by:			Date/Time:		Company:		Date/Time:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No			Cooler Temperature(s) °C and Other Remarks. <u>1.9°C / 1.3°C</u>				



Login Sample Receipt Checklist

Client: Terracon Consultants Inc

Job Number: 192-10523-1

Login Number: 10523
List Number: 1
Creator: Vang, Matthew

List Source: Eurofins Arkansas

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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	



Login Sample Receipt Checklist

Client: Terracon Consultants Inc

Job Number: 192-10523-1

Login Number: 10523
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 03/22/24 01:51 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

