

APPENDICES

**Corrective Measures Effectiveness Report
January 2022 Monitoring Event
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston, Alabama**

APPENDIX A

Groundwater Levels and Sample Collection Logs



Matrix Environmental Services
283 Rucker Street
Anniston, Alabama 36205
(256) 847-0780
(256) 847-0905

Project Name

Chem Laundry

Project Number

21.094.22-02.1

GROUNDWATER LEVELS**Field Personnel**

Jason Tulley

Measuring Equipment

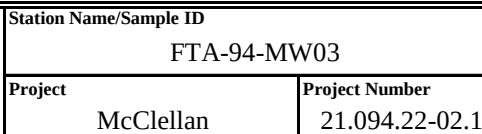
Solinst Water Level Meter

Date

1/24/2022

Conditions

Well ID	Casing Diameter (in)	Date	Time	Depth to Water (feet)	Well Depth (feet)	Water Column (feet)	Initials
FTA-94-MW02	2	1/24/2022	9:40	28.15	55.00	26.85	JT
FTA-94-MW10	2	1/24/2022	10:50	16.69	38.49	21.80	JT
FTA-94-MW14	4	1/24/2022	10:30	16.51	75.30	58.79	JT
FTA-94-MW09	2	1/24/2022	10:00	18.79	32.18	13.39	JT
FTA-94-MW05	2	1/24/2022	10:10	20.01	38.26	18.25	JT
FTA-94-MW08	2	1/24/2022	10:20	21.58	26.28	4.70	JT
FTA-94-MW07	2	1/24/2022	10:40	7.5	20.01	12.51	JT
FTA-94-MW16	4	1/24/2022	9:30	9.78	46.65	36.87	JT
FTA-94-MW06	4	1/24/2022	11:00	5.03	27.69	22.66	JT
FTA-94-MW15	4	1/24/2022	9:20	11.65	93.32	81.67	JT
FTA-94-MW03	2	1/24/2022	9:10	4.90	22.60	17.70	JT
FTA-94-MW12	2	1/24/2022	9:15	3.61	93.95	90.34	JT
FTA-94-MW04	2	1/24/2022	11:05	5.03	22.13	17.10	JT
FTA-94-MW11	4	1/24/2022	11:10	22.42	70.81	48.39	JT
FTA-94-MW01	4	1/24/2022	11:15	23.00	44.42	21.42	JT
FTA-94-MW13	4	1/24/2022	11:20	23.98	127.93	103.95	JT



Groundwater Depth (TOC)	Sample Method	Sampler	Date
4.9		Jason Tulley	1/25/2022
Well Depth (TOC)		Location (Site)	Begin Time
22.6		Chem Laundry	8:15
Water Column Thickness	Equipment YSI Pro Plus, Geocontrol Pro, Water Level Meter	Laboratory	Sample Depth
17.7		TestAmerica	18.0
Casing Diameter	Temperature (°F) 49	Sample Suite	
2		See COCs	
Casing Volume		Meters	
2.83	Weather Conditions	Serial numbers	
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4		YSI Pro Plus	
Well Elevation (TOC)		Geocontrol PRO	
786.49	Overcast	Calibration	Ferrous Iron (Fe II) (mg/L)
Groundwater Elevation		Field	
781.59	Parameter Stabilization	1/25/2022	N/A
	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	Product Observed (yes/no)	Depth to product
		N/A	N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
830	0	14.5	433	4.7	45	431.70	107	7.2	Cloudy	Brown	None
835	500	13.8	432	4.0	51	431.70	385	7.1	Cloudy	Brown	None
840	500	13.3	431	2.8	33	430.70	240	7.3	Cloudy	Brown	None
845	500	13.8	432	1.9	5	431.40	137	7.5	Cloudy	Brown	None
850	500	13.9	432	1.7	4	431.70	79	7.5	Cloudy	Brown	None
855	500	14.0	432	1.5	1	431.60	68	7.6	Clear	Brown	None
900	500	14.0	432	1.4	2	431.70	73	7.6	Clear	Brown	None
905	500	14.0	432	1.4	2	431.50	69	7.6	Clear	Brown	None
910	500	14.0	432	1.3	2	431.60	70	7.6	Clear	Brown	None
911	Collecting Sample Suite										
Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)				Notes					
40	4000	No				1-25-22					

QA/QC Samples	
N/A	

Signature

Page 1 of 1



Matrix Environmental Services
1601 Blake Street, Suite 200
Denver, Colorado 80202
(303) 572-0200
(303) 572-0202

Station Name/Sample ID

FTA-94-MW11

Project

McClellan

Project Number

21.094.22-02.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 22.58 feet	Sample Method Low Flow	Sampler D. Abernathy	Date 1/25/2022
Well Depth (TOC) 70.81 feet		Location (Site) Chem Laundry	Begin Time 10:50
Water Column Thickness 48.23 feet	Equipment Geotech Geocontrol Pro, Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 62.0
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 31.35 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Overcast	Meters YSI Pro Plus #2	Serial numbers Geotech Water Level Meter Micro TPW Turbidity Mete
Well Elevation (TOC) 806.79 feet		Calibration Field 1/25/2022	Ferrous Iron (Fe II) (mg/L) 0
Groundwater Elevation 784.21 feet	Parameter Stabilization temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit		Product Observed (yes/no) N/A
		Depth to product N/A	

Time	Volume removed (gallon)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1050	0	15.5	461	1.1	-89	0.30	3	7.3	Clear	Clear	None
1055	500	15.7	459	0.8	-90	0.30	3	7.3	Clear	Clear	None
1100	500	15.7	451	0.8	-86	0.29	4	7.3	Clear	Clear	None
1105	500	15.8	440	0.7	-80	0.28	4	7.3	Clear	Clear	None
1110	500	15.8	417	0.6	-63	0.27	4	7.2	Clear	Clear	None
1115	500	16.0	407	0.6	-51	0.26	4	7.2	Clear	Clear	None
1120	500	15.9	407	0.7	-42	0.26	3	7.2	Clear	Clear	None
1125	500	16.0	407	0.7	-31	0.26	3	7.2	Clear	Clear	None
1130	500	16.2	409	0.7	-27	0.27	3	7.2	Clear	Clear	None
1135	500	16.3	411	0.7	-24	0.27	3	7.2	Clear	Clear	None
1140	500	16.2	413	0.8	-22	0.27	4	7.2	Clear	Clear	None

1145

Collect Sample

Total Time (min.) 55	Total Volume Removed 5000	Well pumped dry (yes/no) No	Notes
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QA/QC Samples
DUP 389

Signature



Matrix Environmental Services
1601 Blake Street, Suite 200
Denver, Colorado 80202
(303) 572-0200
(303) 572-0202

Station Name/Sample ID

FTA-94-MW12

Project

McClellan

Project Number

21.094.22-02.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	3.61	feet	Sample Method	Low Flow	Sampler	Jason Tulley	Date	1/25/2022
Well Depth (TOC)	93.95	feet						
Water Column Thickness	90.34	feet	Equipment	YSI Pro Plus, Geocontrol Pro, Water Level Meter	Laboratory	TestAmerica	Sample Depth	85.0
Casing Diameter	2	inches						
Casing Volume	14.45	gallons	Weather Conditions	Overcast	Meters	Geocontrol PRO	Serial numbers	
Well Elevation (TOC)	787.16	feet						
Groundwater Elevation	783.55	feet	Parameter Stabilization	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	Calibration	Field	Ferrous Iron (Fe II) (mg/L)	N/A
			Product Observed (yes/no)	N/A	Depth to product	N/A		

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
950	0	13.9	455	1.2	-123	0.30	5	7.9	Clear	Clear	None
955	500	13.9	459	1.1	-126	0.30	4	7.9	Clear	Clear	None
1000	500	14.2	447	2.5	-120	0.29	4	7.9	Clear	Clear	None
1005	500	14.4	447	2.7	-122	0.29	4	7.9	Clear	Clear	None
1010	500	14.3	448	2.7	-121	0.29	4	7.9	Clear	Clear	None
1015	500	14.3	447	2.5	-128	0.29	3	7.9	Clear	Clear	None
1020	500	14.8	447	1.9	-155	0.29	4	7.9	Clear	Clear	None
1025	500	14.8	446	3.2	-158	0.29	4	7.9	Clear	Clear	None
1030	500	14.7	443	3.1	-147	0.29	3	7.9	Clear	Clear	None
1035	500	14.8	443	3.3	-147	0.29	3	7.9	Clear	Clear	None
1040	500	14.9	443	3.0	-148	0.29	3	7.9	Clear	Clear	None
1041			Collecting Sample Suite								
Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)		Notes							
50	5000	No									

QA/QC Samples

Signature

9.2



Matrix Environmental Services
1601 Blake Street, Suite 200
Denver, Colorado 80202
(303) 572-0200
(303) 572-0202

Station Name/Sample ID

FTA-94-MW13

Project

McClellan

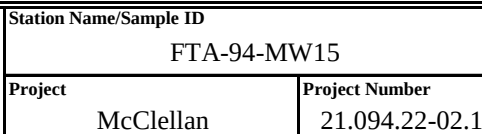
Project Number

21.094.22-02.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
24.12		D. Abernathy	1/25/2022
feet		Location (Site)	Begin Time
Well Depth (TOC)		Chem Laundry	9:15
127.93	Equipment	Laboratory	Sample Depth
feet		TestAmerica	120.0
Water Column Thickness		Sample Suite	
103.81	Geotech Geocontrol Pro, Geotech Bladder Pump	See COCs	
feet			
Casing Diameter	Temperature (°F)	Meters	Serial numbers
4	48°	YSI Pro Plus #2	
inches		Geotech Water Level Meter	
Casing Volume	Weather Conditions	Micro TPW Turbidity Mete	
67.48		Calibration	Ferrous Iron (Fe II) (mg/L)
gallons		Field	
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Overcast	1/25/2022	N/A
808.06			
feet			
Groundwater Elevation	Parameter Stabilization	Product Observed (yes/no)	Depth to product
783.94	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	N/A	N/A
feet			

Time	Volume removed (gallon)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0915	0	13.9	426	4.0	-105	0.28	5	8.1	Clear	Clear	Sulfur-like
0920	375	14.2	428	3.2	-123	0.28	4	8.3	Clear	Clear	Sulfur-like
0925	375	14.3	429	2.3	-149	0.28	3	8.5	Clear	Clear	None
0930	375	14.3	429	1.6	-162	0.28	3	8.6	Clear	Clear	None
0935	375	14.5	429	1.3	-169	0.28	4	8.7	Clear	Clear	None
0940	375	14.4	429	1.2	-175	0.28	3	8.7	Clear	Clear	None
0945	375	14.4	429	1.1	-178	0.28	3	8.7	Clear	Clear	None
0950	375	14.4	429	1.0	-181	0.28	3	8.7	Clear	Clear	None
0955	375	14.4	429	1.0	-181	0.28	3	8.7	Clear	Clear	None
1000	Collect Sample										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
45	3000		No								
QA/QC Samples									Signature		
N/A											



Groundwater Depth (TOC)	Sample Method	Sampler	Date
11.65		Jason Tulley	1/25/2022
Well Depth (TOC)		Location (Site)	Begin Time
93.32		Chem Laundry	12:30
Water Column Thickness	Equipment YSI Pro Plus Geocontrol Pro, Water Level Meter	Laboratory	Sample Depth
81.67		TestAmerica	85.0
Casing Diameter	Temperature (°F) 57	Sample Suite	
4		See COCs	
Casing Volume		Meters	
53.09	Weather Conditions	Serial numbers	
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4		YSI Pro Plus	
Well Elevation (TOC)		Geocontrol PRO	
795.19	Overcast	Calibration	Ferrous Iron (Fe II) (mg/L)
Groundwater Elevation		Field	
783.54	Parameter Stabilization	1/25/2022	N/A
	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	Product Observed (yes/no)	Depth to product
		N/A	N/A

QA/QC Samples	Signature <i>J-2</i>
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Page of



Matrix Environmental Services
1601 Blake Street, Suite 200
Denver, Colorado 80202
(303) 572-0200
(303) 572-0202

Station Name/Sample ID

FTA-94-MW16

Project

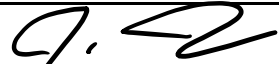
McClellan

Project Number

21.094.22-02.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
9.78		Jason Tulley	1/25/2022
Well Depth (TOC)		Location (Site)	Begin Time
46.65		Chem Laundry	11:00
Water Column Thickness	Equipment YSI Pro Plus Geocontrol Pro, Water Level Meter	Laboratory	Sample Depth
35.99		TestAmerica	40.0
		Sample Suite	
		See COCs	
Casing Diameter	Temperature (°F) 53	Meters	Serial numbers
4		YSI Pro Plus	
Casing Volume	Weather Conditions	Geocontrol PRO	
23.39			
		Calibration	Ferrous Iron (Fe II) (mg/L)
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4		Field	
Well Elevation (TOC)	Overcast	1/25/2022	N/A
793			
Groundwater Elevation	Parameter Stabilization	Product Observed (yes/no)	Depth to product
783.22	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	N/A	N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1115	0	15.7	226	4.1	-57	0.15	3	10.6	Clear	Clear	None
1120	500	15.8	226	3.4	-45	0.15	4	10.6	Clear	Clear	None
1125	500	15.8	226	3.3	-43	0.15	4	10.6	Clear	Clear	None
1130	500	16.0	226	3.1	-36	0.15	3	10.6	Clear	Clear	None
1135	500	16.0	226	3.1	-36	0.15	4	10.5	Clear	Clear	None
1140	500	16.0	226	3.4	-23	0.15	4	10.5	Clear	Clear	None
1145	500	16.0	225	3.5	-19	0.15	3	10.5	Clear	Clear	None
1150	500	15.9	225	3.9	-13	0.15	4	10.5	Clear	Clear	None
1155	500	15.9	225	4.0	-12	0.15	3	10.5	Cloudy	Clear	None
1200	500	15.9	225	3.8	-11	0.15	3	10.5	Clear	Clear	None
1205	500	15.9	225	4.1	-7	0.15	4	10.5	Clear	Clear	None
1210	500	15.9	225	4.1	-10	0.15	3	10.5	Clear	Clear	None
Total Time (min.) 55	Total Volume Removed 5500	Well pumped dry (yes/no)				Notes 12:11 Collecting Sample Suite					
QA/QC Samples									Signature 		

APPENDIX B

Chain-of-Custody Forms

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 6542
Cooler ID 1 of 1
Page 1 of 1

Laboratory Eurofins
Lab Contact Noel Savoie, Beth Daughtry
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 94(7), Chem Laundry/Motor Pool
Task # 21 094.22-02.1
Lab contract: 21.094.22-02.1 .500

Samplers Signature 

SWMU	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis						
								SW8260D - VOC 3-40 mL vials, HCL	RSK-175-M,E,E 3-40mL vials, HCL	SW6010B Metals, Fe, Mn - Total 1 - 250mL poly, HNO3	SW6010B Metals, Fe, Mn - Dissolved (lab filter) 1 - 250mL poly, None	4500-NH3F, 4500NorgC 1-250 mL poly, H2SO4	SW9056 Nitrate, Nitrite, Sulfate 1-125 mL poly, none	SW8260D - VOC 2-40 mL vials, HCL
LTM - ChemLaundry	FTA-94-MW03	NS	MW	Water	BP	1/25/22	09:11	X						
LTM - ChemLaundry	FTA-94-MW11	NS	MW	Water	BP	1/25/22	11:45	X	X	X	X	X	X	
LTM - ChemLaundry	FTA-94-MW12	NS	MW	Water	BP	1/25/22	10:41	X						
LTM - ChemLaundry	FTA-94-MW13	NS	MW	Water	BP	1/25/22	10:00	X						
LTM - ChemLaundry	FTA-94-MW15	NS	MW	Water	BP	1/25/22	13:16	X						
LTM - ChemLaundry	FTA-94-MW16	NS	MW	Water	BP	1/25/22	12:11	X						
LTM - ChemLaundry	DUP389	FD	MW	Water	BP	1/25/22	N/A	X	X	X	X	X	X	
LTM - ChemLaundry	TB592	TB	WQ	Water	G	1/25/22	14:30							X

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
Sampling Method: G = Grab, BP = bladder pump, PDB = PDB bag

Double the number of bottles for MS/MSD

COMMENTS:

Relinquished by (Signature):

Date/Time:

Received by (Signature):

1/25/22 16:00

FedEx

Relinquished by (Signature):

Date/Time:

Received by (Signature):

ap

1/26 10:45



680-210495 Chain of Custody

0.3°C
0.9°C

APPENDIX C

Data Quality Summary

Appendix C
Data Quality Summary:
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston, Alabama

January 2022 Monitoring Event

Prepared for:



Prepared by:



283 Rucker Street, Bldg. 3165
Anniston, Alabama 36205
(256) 847-0780
Fax (256) 847-0905

March 2022

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ATTACHMENTS

C1	Laboratory Data Report
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LIST OF ABBREVIATIONS AND ACRONYMS

ADEM	Alabama Department of Environmental Management
ARBCA	<i>Alabama Risk-Based Corrective Action Guidance Manual, Revision 3</i>
CCAL	Continuing calibration
<i>CMI Plan</i>	<i>Final Corrective Measures Implementation Plan</i>
COC	Chain-of-custody
<i>December 2007 to December 2010</i>	<i>Final Corrective Measures Effectiveness Report, December 2007, June 2008, December 2008, December 2009, and December 2010 Monitoring</i>
CMER	Events
DQO	Data Quality Objective
DQS	Data Quality Summary
EB	Equipment blank
EPA	United States Environmental Protection Agency
FD	Field duplicate
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
ICAL	Initial calibration
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
LFS	low flow sampling
MCL	Maximum contaminant level
MDA	McClellan Development Authority
MDL	Method detection limit
MES	Matrix Environmental Services, LLC
MNA	Monitored Natural Attenuation
MS	Matrix spike
MSD	Matrix spike duplicate
PARCCS	Precision, accuracy, representativeness, completeness, comparability, and sensitivity
QA	Quality assurance
QAP	<i>Quality Assurance Plan</i>
QC	Quality control
%R	Percent recovery
RL	Reporting limit
RPD	Relative percent difference
RSD	Relative standard deviation
Site	Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
SOP	Standard operating procedure
TAL	TestAmerica Laboratories, Inc.
TB	Trip blank
TKN	Total Kjeldahl Nitrogen
VOC	Volatile Organic Compound

1.0 INTRODUCTION

Matrix Environmental Services, LLC (MES) has prepared this Data Quality Summary (DQS) on behalf of the McClellan Development Authority (MDA) in support of the sampling event conducted in January 2022 at the Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7) (the Site) within McClellan, Anniston, Alabama, formerly known as Fort McClellan. The purpose of this sampling event was to collect data to support the implementation of monitored natural attenuation (MNA) as part of the remedial alternative for contaminated groundwater at the Site.

This DQS addresses the data quality review for groundwater samples collected during the January 2022 sampling event. The approved methods used to conduct the investigation are discussed in the *Quality Assurance Plan (QAP)* in *Appendix A* of the *Final Installation-Wide Sampling and Analysis Plan* (MES, 2013) which details the specifics of quality assurance (QA) and quality control (QC) with respect to sampling and data evaluation.

2.0 PROJECT DESCRIPTION

Project objectives and QA objectives in terms of precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are described in this section.

2.1 PROJECT OBJECTIVES

The objective of the environmental sampling at the Site is to evaluate the effectiveness of MNA in groundwater at the Site for the degradation of chlorinated solvents. To support this objective, groundwater samples were collected from one residuum well and five bedrock wells during one round of sampling conducted in January 2022 using low flow sampling (LFS) techniques. The groundwater samples were analyzed for volatile organic compounds (VOCs) and MNA parameters.

2.2 DATA QUALITY LEVELS

During the field program, groundwater samples were collected and analyzed with screening level methods for field parameters and definitive level methods for specific chemical analytes. Screening and definitive level data are defined as follows (United States Environmental Protection Agency [EPA], 1994):

- Screening Level Data – Screening level data are subject to minimal QC requirements. Results are often not compound-specific and not quantitative, but results are available in real time. Obtaining screening level data is less costly than obtaining definitive level data, but the results are less defensible because of the greater potential for error and the inherent precision and accuracy limitations. This level is normally used for field investigation health and safety screening, but can also be used to identify media or samples for consideration for further analyses. Field pH, conductivity, temperature, turbidity, total dissolved solids, dissolved oxygen, and oxidation/reduction potential measurements collected during this investigation are considered screening level data.
- Definitive Level Data - Analyses performed using established analytical procedures and strict QC procedures produce definitive level data. Applicable EPA test methods (EPA, 1983 and 1986) were used to collect definitive level data for the Site. Analytical results produced were analyte-specific with confirmation of analyte identity and concentration. Definitive level data meeting quality criteria are suitable for site assessments, risk assessments, remedial design, and remediation efforts.

2.3 DATA QUALITY OBJECTIVES

QA objectives in terms of PARCCS are outlined below.

Precision is a measure of the reproducibility of a set of duplicate analytical results, usually under prescribed similar conditions. Precision, as discussed in Section A3.3.1 in the QAP, is expressed in terms of the relative percent difference (RPD) between duplicate determinations, or in terms of

the relative standard deviation (RSD) when three or more determinations are made. Various measures of precision exist depending on the prescribed similar conditions.

Overall sampling and analysis precision was assessed using RPDs for duplicate environmental samples and matrix spike/matrix spike duplicates (MS/MSDs). The RPDs for laboratory control sample/laboratory control sample duplicate (LCS/LCSD) results were used to assess laboratory precision. RPD is defined as the difference between two measurements divided by their mean and expressed as a percent (%) as shown in the following equation:

$$RPD = \frac{|X - Y|}{(X + Y) / 2} \times 100\%$$

where:

X = Primary sample concentration (primary field investigative sample, MS, or LCS)

Y = Duplicate sample concentration (laboratory duplicate, field duplicate [FD], MSD, or LCSD)

To evaluate precision, the RPDs for MS/MSDs, laboratory duplicates, and LCS/LCSDs were compared to laboratory historical limits. The RPDs for FDs were compared to the project precision goal of 50 percent for aqueous samples.

The RSD is the standard deviation of a set of values divided by the average value expressed as a percent as shown in the following equation:

$$RSD = S / \bar{X} \times 100$$

where:

S = The standard deviation of the sample data

$\bar{X}$ = The arithmetic mean of the sample data

RSDs can be used to evaluate the linearity of the initial calibration (EPA, 1986).

Accuracy is a measure of the agreement of an analytical result with the true value. Accuracy, as discussed in Section A3.3.2 in the QAP, is typically expressed as a percent recovery (%R) calculated by the ratio of the measurement and accepted true value as shown in the following equation:

$$\%R = ((X_s - X_u) / K) \times 100\%$$

where:

X_s = Measured value of the spiked sample

X_u = Measured value of the unspiked sample

K = Known amount of the spike in the sample

Analytical accuracy is assessed through the analysis of spikes such as surrogates, MS/MSDs and LCS/LCSDs, performance evaluation samples, standard reference materials and calibration check samples. Surrogates and MS/MSDs are spiked into the actual sample matrix and are accuracy indicators that take into account the nature of the matrix in question and the native

concentration of the analyte spiked. Matrix variability or interferences from high concentrations of native compounds may adversely affect spike recovery and yield less than conclusive data. Accuracy checks that focus on analytical method and consist of compounds spiked in a blank or non-interfering matrix (e.g., LCSs or calibration check samples) address the accuracy of the method or instrumentation at detecting the target analyte(s) at a certain quantification level and are not considered to be subject to matrix effects. The accuracy of sample results can also be affected by holding time violations.

Representativeness, as described in Section A3.3.3 in the QAP, is a qualitative parameter that expresses the degree to which sample data actually represent the matrix conditions. For example, in conducting groundwater monitoring, representativeness requires proper location of wells and the collection of samples under consistent, documented procedures. Wells are located based upon the results of the hydrogeologic study in progress and are designed to provide maximum coverage of the flow conditions. Requirements and procedures for sample collection and handling are designed to maximize sample representativeness. Representativeness can also be monitored by reviewing field documentation and by performing field QA audits.

Completeness, as discussed in Section A3.3.4 in the QAP, represents the percentage of valid data collected from a sampling/analytical program or measurement system compared to the amount achieved under optimal conditions. The completeness goal for investigative samples is 95 percent. Completeness is calculated using the following formula:

$$\text{Percent Complete} = \frac{\text{Valid Data}}{\text{Total Data}} \times 100\%$$

Valid data are identified during the data review process as being acceptable for use or usable as qualified. Invalid data are identified as rejected.

Comparability, as discussed in Section A3.3.5 of the QAP, is a qualitative parameter expressing the confidence with which one data set can be compared with another. Comparability for sampling and analysis tasks is achieved by:

- Specifying well-recognized techniques and accepted standard methods for sampling and analysis, and using well-trained sampling and analysis technicians to execute the prescribed methods consistently.
- Requiring that sampling and analysis personnel produce adequate documentation to record how the prescribed methods were actually executed.
- Noting non-conformances and corrective measures taken.

Specifying standardized laboratory methods helps to ensure that the data generated for a sampling event are comparable to past and future sampling events.

Sensitivity is used broadly here to describe the method detection limits (MDLs) or reporting limits (RLs) established to meet project-specific data quality objectives (DQOs). In addition, sensitivity can be used to describe the capability of a method or instrument to discriminate

between measurement responses. Several limits have been established to describe sensitivity requirements as specified in Section A3.3.6 of the QAP. Reported instrument detection limits (IDLs) and MDLs are typically based upon a reagent water matrix or purified solid, and ignore sample matrix interferences and the resulting effects on the limits. For this reason, published MDLs or IDLs may not be achievable for environmental samples. The QAP RLs were generated by the laboratory and may exceed Maximum Contaminant Levels (MCLs) due to instrument limitations. Section 6.2 discusses the comparisons between the MCLs and the laboratory RLs and MDLs for the sampling events.

2.4 ANALYTICAL SERVICES

TestAmerica Laboratories, Inc. (TAL), Savannah, Georgia, provided analytical services for the sampling conducted by MES.

2.4.1 Analytical Program

The QAP lists the EPA analytical methods used to meet definitive data requirements. The methods used to analyze constituents of concern in samples during the January 2022 sampling event are:

- Method SW8260D - VOCs by Gas Chromatography/Mass Spectrometry (GC/MS)
- Method RSK-175 - Light hydrocarbons methane, ethane, and ethene by gas chromatography (GC)
- Method SW6010C - Total and Dissolved Metals (iron and manganese) by Inductively Coupled Plasma Atomic Emission Spectrometry
- Method SW9056A - Anions (Sulfate, Nitrate, Nitrite) by Ion Chromatography
- Method EPA 350.1 - Ammonia by Colorimetry

2.4.2 Quality Control

The QAP describes the analytical QC requirements. The results of the analytical QC data review for this sampling event are presented in Section 5.0.

3.0 DEVIATIONS FROM PLANNED FIELD ACTIVITIES

Field activities were performed as outlined in the *Final Corrective Measures Implementation Plan (CMI Plan)* (MES, 2006). No deviations from the *CMI Plan* were noted during the preparation of this DQS.

4.0 ASSESSMENT OF DATA QUALITY

Data quality is assessed through two review processes. The contracted analytical laboratory performs the first data review to assess compliance with QAP-approved analytical methods (MES, 2013) and with laboratory standard operating procedures. MES performs the second data review to assess compliance with the QA objectives, and to assess hard copy and electronic deliverable consistency and integrity.

4.1 LABORATORY DATA QUALITY ASSESSMENT

The laboratory data quality assessment includes an analytical data review to ensure accurate and complete data reporting and compliance with the analytical method specifications.

4.1.1 Laboratory Qualification of Data

The laboratory will flag analytical results, when necessary, to indicate potential impacts to data usability and to alert the user to special analytical conditions. More than one qualifier may be used to indicate multiple conditions or situations that apply to an individual result. The following laboratory qualifiers were used during this investigation:

FLAG	DESCRIPTION
J	Estimated value. The analyte is positively identified, and the concentration is less than the RL but greater than the MDL.
U	Analyte is not detected above the RL.

4.2 MES DATA QUALITY AND USABILITY ASSESSMENT

The following sections describe the procedures that MES followed to assess the quality and usability of both field measurement and definitive data. Data assessment is complete when 100 percent of the information have been collected and reviewed. Based on the results of the review process, data are categorized as fully usable, usable as qualified, or rejected.

4.2.1 Data Review and Validation

MES reviewed the analytical data in accordance with the QAP (MES, 2013), analytical methods (EPA, 1986), and *USEPA Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review* (EPA, 2014a and 2014b). The data review process included reviewing and evaluating 100 percent of the hard copy data for (1) extraction and analysis holding times, (2) surrogate recoveries, (3) blank detections, (4) LCS/LCSD recoveries and RPDs, (5) MS/MSD recoveries and RPDs, (6) FD RPDs, (7) laboratory duplicate RPDs, if applicable, (8) initial and continuing calibrations, (9) instrument tuning and performance, (10) reporting limits, and (11) completeness of the chain-of-custody (COC) forms.

Hard copy data packages were checked to verify that the following items were included:

- Case narrative
- Data summary sheets
- Initial and continuing calibrations
- Method or preparation blanks (at least one per QC batch)
- MS/MSD (5 percent of client samples)
- LCS/LCSD (one per QC batch)
- Duplicate analyses (laboratory duplicate sample, LCS/LCSD, MS/MSD, as applicable)
- Holding times
- Retention time window calculation (if applicable)
- Standard preparation sheets
- Linear range calculations (correlation coefficients)

The results of the review of the chemical data obtained during this investigation are included in Section 5.0. The laboratory data package is included in Attachment C1.

4.2.2 MES Qualification of Data

Based on the data review, MES may assign final qualifiers to analytical results on both the hard copy results and in the database. The following final qualifiers may be assigned to the results to describe data quality and usability:

FLAG	DESCRIPTION
J	Estimated detection. The associated numerical value is the approximate concentration of the analyte in the sample.
UJ	Analyte was analyzed for, but was not detected. The reported quantitation limit is estimated.
U	Result was qualified as not detected above the RL or reported sample quantitation limit.

In addition to the qualifier, a sub-qualifier is applied to describe the specific multiple conditions or situations that apply to an individual result. These qualifiers and sub-qualifiers are collectively referred to as validation codes.

Whenever duplicate sets of results were reported by the laboratory due to dilutions, re-analyses, re-extractions, or dual column analytical methods, the MES reviewer chose the “most-preferred” results based on the data review. In Section 5.0, only the reportable data are shown in Tables C5-2 to C5-6.

5.0 RESULTS OF QUALITY CONTROL ANALYSES

Table C5-1 lists samples and analytical methods included in the January 2022 sampling event for the Site. To evaluate the data quality, the results were compared to method requirements and laboratory historical control limits.

No data were qualified based on the data review process. None of the analytical data were rejected. The results of the data review process are discussed further in the following sections.

5.1 QUALITY CONTROL PROCEDURES AND RESULTS OF QUALITY CONTROL ANALYSES

Two types of QC results were used to evaluate data quality: field QC samples were collected and analyzed to evaluate field sampling activities, and laboratory QC samples were analyzed to evaluate laboratory analytical procedures and maintain control of the analytical methods.

5.1.1 Field Quality Control Procedures and Analyses

Field QC samples included MS/MSD samples, FD and trip blank (TB). The QAP was used as the guidance document to identify the appropriate number of field QC samples, procedures for their collection and analysis, and evaluation of results required for this sampling event. The evaluation procedures for the field QC sample analyses are summarized below.

5.1.1.1 Matrix Spike/Matrix Spike Duplicate and Laboratory Duplicate Samples

MS and MSD samples are investigative samples spiked by the laboratory with known concentrations of target analytes. MS and MSD sample results are used to evaluate possible matrix interferences. The formulas used to calculate the percent recoveries and RPDs are presented in Section 2.3.

Accuracy was assessed by calculating the MS and MSD %Rs of the concentrations of the target analytes added to the investigative sample. The %Rs were then compared to laboratory historical control limits. When both the MS and MSD %Rs were outside laboratory historical control limits, MS/MSD qualifiers were applied only to the results for the investigative sample used for the MS/MSD. When only an MS was analyzed, qualifiers were applied when the MS %R was outside laboratory historical control limits. Low recoveries in an MS/MSD may indicate the matrix has negatively influenced the results. Constituent concentrations could be potentially higher in samples with low MS/MSD recoveries. High MS/MSD recoveries may indicate the matrix has positively influenced the results. Constituent concentrations may be potentially lower in samples with high MS/MSD recoveries.

Precision was assessed by calculating the RPDs for the MS/MSD sample pairs and laboratory duplicate samples. The MS/MSD and laboratory duplicate RPD values were reviewed to assess the precision of the analytical results based on the magnitude of the RPD values. In cases where a target analyte was not detected in at least one of the MS/MSD or laboratory duplicate sample pair, an RPD would not be valid, and therefore, was not calculated. Qualifiers were not

applied based on the MS/MSD or laboratory duplicate RPD values, however, the MS/MSD and laboratory duplicate RPD values were compared to laboratory historical control limits to assess if further evaluation of the data was warranted.

For the January 2022 sampling event, site specific MS/MSD was not collected; batch QC was analyzed for the MS and MSD for Methods SW8260D and RSK-175; for the MS and laboratory duplicate for Methods E350.1; and FTA- 94-MW11 was used for the batch QC for Method SW6010C and SW9056A. Data in this SDG are not qualified based on batch QC from another project. No sample results were qualified because of MS and MSD percent recovery data for method SW9056A. A summary of the MS/MSD %R data is shown in Table C5-2.

Because greater than 98 percent of the MS and MSD percent recovery results were within the laboratory control limits, the overall accuracy of the analytical results is considered to be acceptable.

A summary of the MS/MSD RPD data are shown in Tables C5-2. All of the MS/MSD RPD values met the laboratory's historical control limits. Because greater than 98 percent of the MS/MSD and laboratory duplicate RPD results were within the laboratory control limits, the overall variability of the precision measurements is considered to be acceptable.

5.1.1.2 Field Duplicate Samples

FD samples were collected and analyzed as specified in the QAP (Section A6.3.5). FD samples are independent samples collected simultaneously or in immediate succession with the original investigative samples such that they are expected to be equally representative of the medium at the time of sampling. These samples provide precision information for the entire measurement system, including sample collection, handling, shipping, storage, preparation, and analysis. The precision of FD pairs was assessed by calculating the RPDs using the equation in Section 2.3. In cases where a target analyte was not detected in either sample or was detected in only one of the samples, an RPD would not be valid, and therefore, was not calculated.

One groundwater FD sample was collected for the January 2022 sampling event. Table C5-3 lists the original station name from the COC forms (i.e. COC IDs used to disguise the sample's identity when the sample was sent to the laboratory), the parent station name, and the methods analyzed.

The results for the FD and associated investigative sample analyses were reviewed to assess the precision of the analytical results based on the magnitude of the RPD values. Table C5-4 presents the results of detected analytes. The criterion of 50% for aqueous samples was used to assess if further evaluation of the data was warranted. All the field duplicate RPDs met criteria. The overall variability of the precision measurements is considered acceptable.

5.1.1.3 Trip Blank Analyses

TBs are used to assess the potential introduction of contaminants from sample containers or during the sampling, transportation, and storage procedures (MES, 2013). A TB sample consists of VOC sample vials filled in the laboratory with American Society of Testing and Materials Type II reagent grade water, transported to the sampling site, handled like an environmental sample and returned to the laboratory for analysis. TBs are not opened in the field and are only prepared when aqueous VOC samples are scheduled to be collected and analyzed by the laboratory. Sample results are considered affected by trip blank contamination when the sample concentration is less than five times the blank concentration (ten times for common laboratory contaminants acetone, methylene chloride, and 2-butanone). Affected sample results less than the reporting limit and less than five times the associated blank concentrations are considered non-detects at the reporting limit. Affected sample results greater than the reporting limit and less than five times the blank concentration are considered non-detects at the concentration observed in the sample. One TB was collected for the January 2022 sampling event. No analytes were detected in the TB collected during the January 2022 sampling event. No data were qualified for TBs.

5.1.2 Laboratory Quality Control Procedures and Analyses

Laboratory QC checks include internal system checks and QC samples used to monitor the possible effect of laboratory activities on sample results. The analytical method and method-specific Standard Operating Procedures (SOPs) developed by the laboratory define the types of laboratory QC checks required. QC procedures followed by the laboratory include sample container inspection, COC documentation review, sample holding time review, LCS/LCSD analyses, method blank analyses, and surrogate spike percent recovery evaluation. The laboratories are also responsible for analytical instrument calibration, which includes method-specific criteria for initial and continuing calibrations for external and internal standard calibration procedures.

5.1.2.1 Initial Sample Inspection and Chain-of-Custody Documentation

The laboratory inspected the shipping containers upon receipt and compared the contents with the COC form associated with each cooler. Information from the sample check-in procedure was recorded on the Sample Receipt Form, including sample receipt anomalies. These forms were used by the laboratory to document that sample identifications listed on the COC forms agreed with the samples contained in the coolers. The laboratory verified that COC forms were filled out properly, sample containers were not broken, custody seals were intact, the pH method-specific criteria for water samples (if applicable), and cooler temperatures were maintained at 4 ± 2 degrees Celsius. The completed forms are included in the laboratory analytical packages and were reviewed during the data review process. The samples arrived at the laboratory at the proper temperature, and no sample containers were damaged during transit.

MES compared the data on the COC forms with the laboratory reports and documented any differences. If minor discrepancies were found and verified by the laboratory, the laboratory reports and MES electronic databases were corrected. In addition to the COC checks, MES reviewers verified approximately 10 percent of the laboratory hard copy reports against the laboratory electronic data deliverables.

5.1.2.2 Holding Times

Samples were shipped regularly in coordination with the analytical laboratory to ensure analyses were conducted within the required holding times. The time elapsed between sample collection and sample extraction/analysis was calculated as part of the review process to evaluate if holding times were met. Holding time criteria were met.

5.1.2.3 Laboratory Control Sample/Laboratory Control Sample Duplicate

The laboratory analyzed LCS/LCSD pairs with each analytical batch of field samples to assess internal precision and accuracy. LCS/LCSD pairs consisted of analyte-free water spiked with selected target constituents of known concentration. The LCS/LCSD %Rs and RPDs are used to determine laboratory accuracy and precision, respectively. The formulas used to calculate the %Rs and RPDs are presented in Section 2.3. The %Rs and RPDs were then compared to laboratory historical control limits. When the LCS and LCSD %Rs were outside laboratory historical control limits, the LCS/LCSD qualifications were applied to investigative samples within the same analytical batch. Qualifiers were applied only when both the LCS and LCSD %Rs were outside laboratory historical control limits. In cases where only an LCS was analyzed, qualifiers were applied when the LCS %R was outside laboratory historical control limits. Qualifiers were not applied based on LCS/LCSD RPD values, however, the LCS/LCSD RPD values were compared to laboratory historical control limits to assess if further evaluation of the data was warranted. For the sampling event included in this DQS, MES reviewed the LCS/LCSD %Rs and RPDs for Methods RSK-175, SW8260D, and SW9056A. LCS %Rs for Methods SW6010C, E350.1.

Table C5-5 shows the LCS/LCSD %R and RPD data. The LCS/LCSD %Rs and RPDs met criteria. Because no qualifiers were required based on the LCS/LCSD %Rs, and because greater than 96 percent of the RPD results were within the laboratory control limits, the overall accuracy and precision measurements are considered to be acceptable.

5.1.2.4 Method Blank Samples

Method blanks are prepared and analyzed by the laboratory to assess the level of background interferences and possible contamination in the analytical system. The method blank must be carried through the complete procedure and contain analyte-free reagents in the same volumes as used in processing the samples. The goal is to conduct investigative sample analysis in such a manner that sample contamination is not introduced by the analytical methods, equipment, or reagents. If such contamination occurs, it is usually identified by the detection of target analytes at trace or low concentrations in the method blanks. When these detections are found, the laboratory investigates the source, qualifies the affected data as appropriate according to the

magnitude of the detections, and implements corrective measures as appropriate. For the sampling event included in this DQS, method blanks were prepared and analyzed with each analytical batch for Methods RSK-175, E350.1, E351.2, SW6010C, SW8260D, and SW9056A. No analytes were detected in the method blank samples; no qualifiers were required based on method blank results.

5.1.2.5 Surrogate Recovery

Surrogate spike compounds were added to investigative samples during organic analyses to assess the individual matrix effect of investigative samples and to monitor overall analytical system performance. Surrogate recoveries that are outside the laboratory historical control limits may indicate performance problems with the analytical system and extraction procedures, or significant matrix effects when evaluated in conjunction with the MS/MSD results. MES reviewers used laboratory historical control limits to assess percent recoveries for surrogate spike constituents. For sample results affected by surrogate percent recoveries less than the lower control limit, detects were qualified as estimated (J) and may be biased low, and non-detects were qualified as estimated (UJ) and may be potential false negatives. For sample results affected by surrogate percent recoveries greater than the upper control limit, detects were qualified as estimated (J) and may be biased high. No qualifiers are required for non-detect results based on high surrogate recoveries. A summary of the surrogate percent recovery data is provided in Table C5-6. All surrogates met acceptance criteria. No qualifiers were required for sample results based on surrogate recoveries.

5.1.2.6 Internal Standards

Adherence to method-specific internal standards (ISs) criteria ensures that GC/MS sensitivity and response are stable during each analysis. SW-846 (EPA, 1986) recommended ISs are often brominated, fluorinated, or stable isotopically labeled analogs of specific target compounds, or are closely related compounds whose presence in environmental samples is unlikely. The IS spike solution is added after the preparation or extraction of a sample. ISs are used in internal calibration methods to correct sample results affected by column injection loss, purging loss, or viscosity effects. ISs are added to environmental samples, control standards, and blanks, in accordance with method requirements and laboratory SOPs (MES, 2013). No qualifiers were required for sample results based on the IS data.

5.1.2.7 Initial and Continuing Calibration

The calibration of an analytical instrument involves the delineation of the relationship between the response of the instrument and the concentration of an analyte introduced into the instrument. An initial calibration (ICAL) is performed on an analytical instrument prior to the analysis of samples to ensure that the equipment is capable of producing acceptable qualitative and quantitative data. The continuing calibration (CCAL) is the verification of the ICAL at periodic intervals. The CCAL demonstrates that the instrument is capable of acceptable performance during the course of the analytical analysis. Review of the ICAL data included the evaluation of the correlation coefficients and relative standard deviations. Review of the CCAL data included the evaluation of the percent difference between the concentration of the CCAL standard and the

expected concentration. For sample results associated with CCAL data that did not meet method-specific criteria, detects and non-detects were qualified as estimated (J and UJ, respectively). No qualifiers were required for samples based on ICAL and CCAL data.

5.2 SUMMARY OF DATA QUALITY INDICATORS

A summary of the data quality indicators in terms of the PARCCS are described in this section.

5.2.1 Precision

As discussed in Section 2.3, the precision evaluation included field precision (FDs), laboratory precision (LCS/LCSDs), and combined field/laboratory precision (MS/MSDs). The MS/MSD, FD, and LCS/LCSD RPDs are discussed in Sections 5.1.1.1, 5.1.1.2, and 5.1.2.3 of this report, respectively. Based on this evaluation, the precision of the data is acceptable for its intended use.

5.2.2 Accuracy

As discussed in Section 2.3, the accuracy evaluation included a comparison of spike recoveries from field samples (surrogate and MS/MSD spikes) and laboratory QC samples (LCS and LCSD), and assessing holding time. The MS/MSD, LCS/LCSD, and surrogate spike recoveries are discussed in Sections 5.1.1.1, 5.1.2.3, and 5.1.2.5, respectively, and holding time is discussed in Section 5.1.2.2. Recoveries from MS/MSDs, LCS/LCSD and surrogate percent recoveries were compared to laboratory historical control limits to determine a laboratory's ability to accurately determine both qualitative and quantitative results. The investigative sample results were within the required percent recovery limits. The investigative sample results were within the required holding time limits. Based on this evaluation, the accuracy of the data is acceptable for its intended use.

5.2.3 Representativeness

Representativeness is the degree to which the data accurately and precisely portray the environmental conditions being studied. For this investigation, sampling procedures and locations were selected to accurately represent overall Site conditions and were biased toward areas that were likely to exhibit evidence of past releases. Sampling was conducted using known, approved field procedures to minimize variability introduced during field sampling. The investigative and FD analyses indicate that the overall combined variability introduced by the sampling procedures, sample matrix, and laboratory analysis is acceptable, and the FD samples are representative of the data associated with the investigative sample.

5.2.4 Completeness

Completeness refers to the amount of valid data obtainable from a measurement system compared to the expected amount of data. Data that have not been qualified as rejected during the data validation process are considered to be valid. As presented in the QAP (MES, 2013), a completeness goal of 95 percent was established for investigations. Of the 359 investigative

and field duplicate sample records from the January 2022 sampling event, no records were qualified as rejected based on MES' review of the data. Therefore a completeness of 100 percent was calculated for the sampling event, which exceeds project goals. One hundred percent of the results are usable and are acceptable for their intended use.

5.2.5 Comparability

Comparability expresses the confidence with which one data set can be compared to another. Comparability objectives were met by minimizing the number of contract laboratories used, using EPA methods for analyses, and reporting results in standardized units. The comparability objective for the project was fulfilled.

6.0 REPORTING LIMITS AND DATA USES

This section discusses the laboratory reporting limits and how they compare to the MCLs.

6.1 LABORATORY REPORTING LIMITS

TAL confirms reporting limits on an annual or quarterly basis by performing MDL studies. The MDL is defined as the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is generated from the analysis of a sample in a given matrix containing the analyte (40 Code of Federal Regulations, Chapter 1, Part 136, Appendix B). The reporting limit is defined as the lowest concentration of the target analyte required to be reported. This value is based on project-specific criteria.

The laboratory reports detections that are below the reporting limit as estimated values by assigning a flag to the analytical result. This flag is assigned because the laboratory cannot accurately quantify analyte concentrations at levels below the reporting limit. For detections in the concentration range between the MDL and the reporting limit, the laboratory is confident of the analyte identification and detection but can only estimate the analyte concentration.

6.2 COMPARISON OF LABORATORY REPORTING LIMITS TO MCLs

For this assessment, the MCLs were compared to the laboratory RLs and MDLs, shown in Table C6-1. The laboratory RLs and MDLs for the investigative samples were equal to or less than the MCLs.

7.0 CONCLUSIONS

This DQS presents in specific terms the QA and QC practices used to achieve the project objectives for the Site during the January 2022 sampling event. Samples were collected and analyzed in accordance with EPA methods and using laboratory-specific QA/QC procedures. These procedures were followed to generate legally and technically defensible data.

None of the quality issues addressed in Section 5.0 of this report resulted in qualification of investigative sample results. Based on this review, the analytical data generated for the January 2022 sampling event are acceptable and adequate to fulfill program objectives and may be used to evaluate the effectiveness of the selected remedy for the Site.

8.0 REFERENCES

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TABLES

Table C5-1: Sample Index
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW03	NS	WG	1/25/22	TALSAV	680-210495-1	680-210495-1	SW8260D
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	NS	WG	1/25/22	TALSAV	680-210495-1	680-210495-2	E350.1
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	NS	WG	1/25/22	TALSAV	680-210495-1	680-210495-2	RSK-175
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	NS	WG	1/25/22	TALSAV	680-210495-1	680-210495-2	SW6010C
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	NS	WG	1/25/22	TALSAV	680-210495-1	680-210495-2	SW8260D
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	NS	WG	1/25/22	TALSAV	680-210495-1	680-210495-2	SW9056A
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	FD	WG	1/25/22	TALSAV	680-210495-1	680-210495-7	E350.1
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	FD	WG	1/25/22	TALSAV	680-210495-1	680-210495-7	RSK-175
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	FD	WG	1/25/22	TALSAV	680-210495-1	680-210495-7	SW6010C
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	FD	WG	1/25/22	TALSAV	680-210495-1	680-210495-7	SW8260D
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	FD	WG	1/25/22	TALSAV	680-210495-1	680-210495-7	SW9056A
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	MS	WG	1/25/22	TALSAV	680-210495-1	680-210495-7 MS	E350.1
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	MS	WG	1/25/22	TALSAV	680-210495-1	680-210495-2 MS	E350.1
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	MS	WG	1/25/22	TALSAV	680-210495-1	680-210495-2 MS	SW6010C
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	MS	WG	1/25/22	TALSAV	680-210495-1	680-210495-7 MS	SW9056A
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	MSD	WG	1/25/22	TALSAV	680-210495-1	680-210495-7 MSD	E350.1
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	MSD	WG	1/25/22	TALSAV	680-210495-1	680-210495-2 MSD	E350.1
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	MSD	WG	1/25/22	TALSAV	680-210495-1	680-210495-7 MSD	SW6010C
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW11	MSD	WG	1/25/22	TALSAV	680-210495-1	680-210495-7 MSD	SW9056A
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW12	NS	WG	1/25/22	TALSAV	680-210495-1	680-210495-3	SW8260D
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW13	NS	WG	1/25/22	TALSAV	680-210495-1	680-210495-4	SW8260D
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW15	NS	WG	1/25/22	TALSAV	680-210495-1	680-210495-5	SW8260D
PARCEL 94(7), CHEM LAUNDRY/MOTOR POOL	FTA-94-MW16	NS	WG	1/25/22	TALSAV	680-210495-1	680-210495-6	SW8260D
MCCLELLAN FIELD QC	TRIP BLANK	TB	W	1/25/22	TALSAV	680-210495-1	680-210495-8	SW8260D

Notes:

FD = Field duplicate

ID = Identification

LD = Laboratory duplicate

MS = Matrix spike

MSD = Matrix spike duplicate

NS = Normal sample

QC = Quality Control

TALSAV = TestAmerica Laboratories Inc., Savannah, Georgia

TB = Trip blank

W = Water

WG = Groundwater

**Table C5-2: Summary of MS/MSD Recoveries and RPDs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston, Alabama**

Station Name	Matrix	Sample Date	Delivery Group	Method	TOT/ DIS	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD RPD	RPD Limit
FTA-94-MW11	WG	1/25/22	680-210495-1	E350.1	TOT	Ammonia (Nh3-N)	104	104	90	110	1	30
FTA-94-MW11	WG	1/25/22	680-210495-1	E350.1	TOT	Ammonia (Nh3-N)	107	108	90	110	1	30
FTA-94-MW11	WG	1/25/22	680-210495-1	SW6010C	DISS	Iron, dissolved	95	95	75	125	0	20
FTA-94-MW11	WG	1/25/22	680-210495-1	SW6010C	DISS	Manganese, dissolved	96	96	75	125	0	20
FTA-94-MW11	WG	1/25/22	680-210495-1	SW9056A	TOT	Nitrate-N	102	97	80	120	5	15
FTA-94-MW11	WG	1/25/22	680-210495-1	SW9056A	TOT	Nitrite-N	105	101	80	120	4	15

Notes:

%R = Percent recovery

LCL = Lower control limit

UCL = Upper control limit

MS = Matrix spike

MSD = Matrix spike duplicate

RPD = Relative percent difference

DISS = dissolved

TOT = total

WG = Groundwater

Table C5-3: Field Duplicate Cross Reference
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston, Alabama

Matrix	COC ID	Parent Station Name	Sample Date	Delivery Group	Method
WG	DUP389	FTA-94-MW11	1/25/22	680-210495-1	E350.1
WG	DUP389	FTA-94-MW11	1/25/22	680-210495-1	RSK-175
WG	DUP389	FTA-94-MW11	1/25/22	680-210495-1	SW6010C
WG	DUP389	FTA-94-MW11	1/25/22	680-210495-1	SW8260D
WG	DUP389	FTA-94-MW11	1/25/22	680-210495-1	SW9056A

Notes:

COC = Chain-of-Custody

ID = Identification

WG = Groundwater

**Table C5-4: Summary of Field Duplicate and Investigative Sample RPDs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston, Alabama**

Station Name	Matrix	Sample Date	Delivery Group	Method	Total or Dissolved	Parameter Name	FD Sample Value	FD Lab Flag	NS Sample Value	NS Lab Flag	Units	RPD	Limit
FTA-94-MW11	WG	1/25/22	680-210495-	RSK-175		Ethene	2.8		2.7		µg/L	3.6	50
FTA-94-MW11	WG	1/25/22	680-210495-	RSK-175		Methane	220		210		µg/L	4.7	50
FTA-94-MW11	WG	1/25/22	680-210495-	SW6010C		Iron	240		220		µg/L	8.7	50
FTA-94-MW11	WG	1/25/22	680-210495-	SW6010C		Iron, dissolved	67	J	67	J	µg/L	0	50
FTA-94-MW11	WG	1/25/22	1	SW6010C		Manganese	33		33		µg/L	0	50
FTA-94-MW11	WG	1/25/22	680-210495-	SW6010C		Manganese, dissolved	31		30		µg/L	3.3	50
FTA-94-MW11	WG	1/25/22	680-210495-	SW8260D		Chlorobenzene	68		69		µg/L	1.5	50
FTA-94-MW11	WG	1/25/22	1	SW8260D		Cis-1,2-Dichloroethene	4.4		4.5		µg/L	2.2	50
FTA-94-MW11	WG	1/25/22	680-210495-	SW8260D		Trans-1,2-Dichloroethene	1.9		2		µg/L	5.1	50
FTA-94-MW11	WG	1/25/22	1	SW8260D		Trichloroethene	38		40		µg/L	5.1	50
FTA-94-MW11	WG	1/25/22	1	SW8260D		Vinyl Chloride	13		13		µg/L	0	50
FTA-94-MW11	WG	1/25/22	680-210495-	SW9056A		Nitrate-N	0.042	J	0.042	J	mg/L	0	50
FTA-94-MW11	WG	1/25/22	1	SW9056A		Sulfate	3.1		3.1		mg/L	0	50

Notes:

FD = Field duplicate

mg/L = milligrams per liter

NA = not applicable

NS = Normal Sample

RPD = Relative percent difference

WG = Groundwater

Blue text and outlined indicate RPD outside acceptance criteria.

Lab Flags:

H = Sample prepared or analyzed beyond the holding time.

H3 = Sample received and analyzed past holding time.

J = Estimated value. The analyte is positively identified and the concentration is less than the reporting limit (RL) but greater than the method detection limit (MDL).

**Table C5-5: Summary of LCS/LCSD Recoveries and RPDs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston, Alabama**

Matrix	Method	Delivery Group	Analysis Date	Analytical Batch	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
W	SW8260D	680-704753	1/28/22	704753	1,1,1,2-Tetrachloroethane	110	109	70	130	0.9	20
W	SW8260D	680-704753	1/28/22	704753	1,1,1-Trichloroethane	94	96	70	130	2.1	50
W	SW8260D	680-704753	1/28/22	704753	1,1,2,2-Tetrachloroethane	103	102	70	130	1.0	20
W	SW8260D	680-704753	1/28/22	704753	1,1,2-Trichloroethane	105	105	70	130	0.0	20
W	SW8260D	680-704753	1/28/22	704753	1,1-Dichloroethane	91	93	70	130	2.2	20
W	SW8260D	680-704753	1/28/22	704753	1,1-Dichloroethene	88	90	70	130	2.2	20
W	SW8260D	680-704753	1/28/22	704753	1,2,3-Trichloropropane	103	101	70	130	2.0	20
W	SW8260D	680-704753	1/28/22	704753	1,2-Dibromo-3-Chloropropane	94	93	70	130	1.1	30
W	SW8260D	680-704753	1/28/22	704753	1,2-Dibromoethane	105	105	70	130	0.0	20
W	SW8260D	680-704753	1/28/22	704753	1,2-Dichlorobenzene	102	103	70	130	1.0	20
W	SW8260D	680-704753	1/28/22	704753	1,2-Dichloroethane	99	99	70	130	0.0	20
W	SW8260D	680-704753	1/28/22	704753	1,2-Dichloropropane	97	98	70	130	1	20
W	SW8260D	680-704753	1/28/22	704753	1,3-Dichloropropane	100	102	70	130	2	20
W	SW8260D	680-704753	1/28/22	704753	1,4-Dichlorobenzene	101	102	70	130	1	20
W	SW8260D	680-704753	1/28/22	704753	2-Butanone (MEK)	96	96	69	120	0.0	20
W	SW8260D	680-704753	1/28/22	704753	2-Hexanone	98	99	70	130	1.0	20
W	SW8260D	680-704753	1/28/22	704753	4-Methyl-2-Pentanone (MIBK)	101	103	68	120	2.0	20
W	SW8260D	680-704753	1/28/22	704753	Acetone	89	88	67	120	1.1	20
W	SW8260D	680-704753	1/28/22	704753	Acrylonitrile	96	95	70	130	1.0	20
W	SW8260D	680-704753	1/28/22	704753	Benzene	95	97	70	130	2.1	20
W	SW8260D	680-704753	1/28/22	704753	Bromodichloromethane	101	102	70	130	1.0	20
W	SW8260D	680-704753	1/28/22	704753	Bromoform	88	88	69	129	0.0	20
W	SW8260D	680-704753	1/28/22	704753	Bromomethane	124	126	28	192	1.6	20
W	SW8260D	680-704753	1/28/22	704753	Carbon Disulfide	83	85	70	130	2.4	20
W	SW8260D	680-704753	1/28/22	704753	Carbon Tetrachloride	97	99	70	130	2.0	20
W	SW8260D	680-704753	1/28/22	704753	Chlorobenzene	100	99	70	130	1.0	30
W	SW8260D	680-704753	1/28/22	704753	Bromochloromethane	94	95	70	130	1.1	30
W	SW8260D	680-704753	1/28/22	704753	Chloroethane	116	118	31	213	1.7	20
W	SW8260D	680-704753	1/28/22	704753	Chloroform	95	96	70	130	1.0	20
W	SW8260D	680-704753	1/28/22	704753	Chloromethane	91	94	59	127	3.2	20
W	SW8260D	680-704753	1/28/22	704753	Cis-1,2-Dichloroethene	95	97	70	130	2.1	30
W	SW8260D	680-704753	1/28/22	704753	Cis-1,3-Dichloropropene	100	101	70	130	1.0	30

**Table C5-5: Summary of LCS/LCSD Recoveries and RPDs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston, Alabama**

Matrix	Method	Delivery Group	Analysis Date	Analytical Batch	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
W	SW8260D	680-704753	1/28/22	704753	Dibromochloromethane	107	110	70	130	2.8	30
W	SW8260D	680-704753	1/28/22	704753	Dibromomethane	99	100	70	130	1.0	20
W	SW8260D	680-704753	1/28/22	704753	Ethylbenzene	98	98	70	130	0.0	20
W	SW8260D	680-704753	1/28/22	704753	Mtbe	97	97	70	130	0.0	20
W	SW8260D	680-704753	1/28/22	704753	Methylene Chloride	91	92	70	130	1.1	20
W	SW8260D	680-704753	1/28/22	704753	Iodomethane	91	95	52	129	4.3	20
W	SW8260D	680-704753	1/28/22	704753	Styrene	97	97	70	130	0.0	20
W	SW8260D	680-704753	1/28/22	704753	Tetrachloroethylene	100	105	70	130	4.9	30
W	SW8260D	680-704753	1/28/22	704753	Toluene	99	100	70	130	1.0	20
W	SW8260D	680-704753	1/28/22	704753	Trans-1,2-Dichloroethene	90	93	70	130	3.3	20
W	SW8260D	680-704753	1/28/22	704753	Trans-1,3-Dichloropropene	104	104	70	130	0.0	20
W	SW8260D	680-704753	1/28/22	704753	Trans-1,4-Dichloro-2-Butene	103	102	67	120	1.0	20
W	SW8260D	680-704753	1/28/22	704753	Trichloroethene	99	101	70	130	2.0	50
W	SW8260D	680-704753	1/28/22	704753	Trichlorofluoromethane	93	95	63	142	2.1	20
W	SW8260D	680-704753	1/28/22	704753	Vinyl Chloride	88	91	66	129	3.4	20
W	SW8260D	680-704753	1/28/22	704753	Vinyl Acetate	97	99	67	135	2.0	20
W	SW8260D	680-704753	1/28/22	704753	Xylenes (Total)	98	99	70	130	1.0	20
W	SW8260D	680-704769	1/28/22	704769	1,1,1,2-Tetrachloroethane	93	97	70	130	4.2	20
W	SW8260D	680-704769	1/28/22	704769	1,1,1-Trichloroethane	99	103	70	130	4.0	20
W	SW8260D	680-704769	1/28/22	704769	1,1,2,2-Tetrachloroethane	105	106	70	130	0.9	30
W	SW8260D	680-704769	1/28/22	704769	1,1,2-Trichloroethane	110	108	70	130	1.8	20
W	SW8260D	680-704769	1/28/22	704769	1,1-Dichloroethane	99	101	70	130	2.0	20
W	SW8260D	680-704769	1/28/22	704769	1,1-Dichloroethene	98	103	70	130	5.0	20
W	SW8260D	680-704769	1/28/22	704769	1,2,3-Trichloropropane	99	101	70	130	2.0	20
W	SW8260D	680-704769	1/28/22	704769	1,2-Dibromo-3-Chloropropane	98	95	70	130	3.1	20
W	SW8260D	680-704769	1/28/22	704769	1,2-Dibromoethane	104	103	70	130	1.0	20
W	SW8260D	680-704769	1/28/22	704769	1,2-Dichlorobenzene	106	105	70	130	0.9	20
W	SW8260D	680-704769	1/28/22	704769	1,2-Dichloroethane	98	99	70	130	1.0	20
W	SW8260D	680-704769	1/28/22	704769	1,2-Dichloropropane	104	104	70	130	0.0	20
W	SW8260D	680-704769	1/28/22	704769	1,3-Dichloropropane	105	102	70	130	2.9	20
W	SW8260D	680-704769	1/28/22	704769	1,4-Dichlorobenzene	104	105	70	130	1.0	20
W	SW8260D	680-704769	1/28/22	704769	2-Butanone (MEK)	91	93	69	120	2.2	20

**Table C5-5: Summary of LCS/LCSD Recoveries and RPDs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston, Alabama**

Matrix	Method	Delivery Group	Analysis Date	Analytical Batch	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
W	SW8260D	680-704769	1/28/22	704769	2-Hexanone	110	111	70	130	0.9	20
W	SW8260D	680-704769	1/28/22	704769	4-Methyl-2-Pentanone (MIBK)	107	108	68	120	0.9	20
W	SW8260D	680-704769	1/28/22	704769	Acetone	102	103	67	120	1.0	20
W	SW8260D	680-704769	1/28/22	704769	Acrylonitrile	103	103	70	130	0.0	20
W	SW8260D	680-704769	1/28/22	704769	Benzene	99	101	70	130	2.0	20
W	SW8260D	680-704769	1/28/22	704769	Bromodichloromethane	93	93	70	130	0.0	20
W	SW8260D	680-704769	1/28/22	704769	Bromoform	84	89	69	129	5.8	30
W	SW8260D	680-704769	1/28/22	704769	Bromomethane	95	105	28	192	10.0	20
W	SW8260D	680-704769	1/28/22	704769	Carbon Disulfide	90	94	70	130	4.3	20
W	SW8260D	680-704769	1/28/22	704769	Carbon Tetrachloride	95	98	70	130	3.1	20
W	SW8260D	680-704769	1/28/22	704769	Chlorobenzene	99	100	70	130	1.0	30
W	SW8260D	680-704769	1/28/22	704769	Bromochloromethane	98	98	70	130	0.0	30
W	SW8260D	680-704769	1/28/22	704769	Chloroethane	94	104	31	213	10.1	30
W	SW8260D	680-704769	1/28/22	704769	Chloroform	102	104	70	130	1.9	30
W	SW8260D	680-704769	1/28/22	704769	Chloromethane	107	109	59	127	1.9	20
W	SW8260D	680-704769	1/28/22	704769	Cis-1,2-Dichloroethene	101	104	70	130	2.9	20
W	SW8260D	680-704769	1/28/22	704769	Cis-1,3-Dichloropropene	94	94	70	130	0.0	20
W	SW8260D	680-704769	1/28/22	704769	Dibromochloromethane	97	97	70	130	0.0	20
W	SW8260D	680-704769	1/28/22	704769	Dibromomethane	103	104	70	130	1.0	20
W	SW8260D	680-704769	1/28/22	704769	Ethylbenzene	102	105	70	130	2.9	20
W'	SW8260D	680-704769	1/28/22	704769	Mtbe	99	101	70	130	2.0	20
W	SW8260D	680-704769	1/28/22	704769	Methylene Chloride	98	99	70	130	1.0	20
W	SW8260D	680-704769	1/28/22	704769	Iodomethane	100	105	52	129	4.9	20
W	SW8260D	680-704769	1/28/22	704769	Styrene	103	105	70	130	1.9	20
W	SW8260D	680-704769	1/28/22	704769	Tetrachloroethylene	104	109	70	130	4.7	20
W	SW8260D	680-704769	1/28/22	704769	Toluene	101	102	70	130	1.0	20
W	SW8260D	680-704769	1/28/22	704769	Trans-1,2-Dichloroethene	100	102	70	130	2.0	20
W	SW8260D	680-704769	1/28/22	704769	Trans-1,3-Dichloropropene	93	95	70	130	2.1	20
W	SW8260D	680-704769	1/28/22	704769	Trans-1,4-Dichloro-2-Butene	97	103	67	120	6.0	20
W	SW8260D	680-704769	1/28/22	704769	Trichloroethene	99	102	70	130	3.0	20
W	SW8260D	680-704769	1/28/22	704769	Trichlorofluoromethane	95	103	63	142	8.1	20
W'	SW8260D	680-704769	1/28/22	704769	Vinyl Chloride	103	104	66	129	1.0	20

**Table C5-5: Summary of LCS/LCSD Recoveries and RPDs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston, Alabama**

Matrix	Method	Delivery Group	Analysis Date	Analytical Batch	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
W	SW8260D	680-704769	1/28/22	704769	Vinyl Acetate	104	103	67	135	1.0	20
W	SW8260D	680-704769	1/28/22	704769	Xylenes (Total)	103	106	70	130	2.9	20
W	SW8260D	680-704969	1/31/22	704969	1,1,1,2-Tetrachloroethane	113	113	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	1,1,1-Trichloroethane	103	102	70	130	1.0	20
W	SW8260D	680-704969	1/31/22	704969	1,1,2,2-Tetrachloroethane	101	101	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	1,1,2-Trichloroethane	108	108	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	1,1-Dichloroethane	101	101	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	1,1-Dichloroethene	98	99	70	130	1.0	20
W	SW8260D	680-704969	1/31/22	704969	1,2,3-Trichloropropane	103	103	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	1,2-Dibromo-3-Chloropropane	97	98	70	130	1.0	20
W	SW8260D	680-704969	1/31/22	704969	1,2-Dibromoethane	109	110	70	130	0.9	20
W	SW8260D	680-704969	1/31/22	704969	1,2-Dichlorobenzene	101	103	70	130	2.0	20
W	SW8260D	680-704969	1/31/22	704969	1,2-Dichloroethane	106	105	70	130	0.9	20
W	SW8260D	680-704969	1/31/22	704969	1,2-Dichloropropane	103	102	70	130	1.0	20
W'	SW8260D	680-704969	1/31/22	704969	1,3-Dichloropropane	104	104	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	1,4-Dichlorobenzene	101	101	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	2-Butanone (MEK)	97	99	69	120	2.0	20
W	SW8260D	680-704969	1/31/22	704969	2-Hexanone	93	97	70	130	4.2	20
W	SW8260D	680-704969	1/31/22	704969	4-Methyl-2-Pentanone (MIBK)	99	102	68	120	3.0	20
W	SW8260D	680-704969	1/31/22	704969	Acetone	91	93	67	120	2.2	20
W	SW8260D	680-704969	1/31/22	704969	Acrylonitrile	100	100	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	Benzene	103	103	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	Bromodichloromethane	106	106	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	Bromoform	91	90	69	129	1.1	20
W	SW8260D	680-704969	1/31/22	704969	Bromomethane	125	121	28	192	3.3	20
W	SW8260D	680-704969	1/31/22	704969	Carbon Disulfide	95	96	70	130	1.0	20
W	SW8260D	680-704969	1/31/22	704969	Carbon Tetrachloride	105	107	70	130	1.9	20
W	SW8260D	680-704969	1/31/22	704969	Chlorobenzene	101	100	70	130	1.0	30
W	SW8260D	680-704969	1/31/22	704969	Bromochloromethane	104	103	70	130	1.0	30
W	SW8260D	680-704969	1/31/22	704969	Chloroethane	114	111	31	213	2.7	20
W	SW8260D	680-704969	1/31/22	704969	Chloroform	101	101	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	Chloromethane	87	86	59	127	1.2	20

**Table C5-5: Summary of LCS/LCSD Recoveries and RPDs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston, Alabama**

Matrix	Method	Delivery Group	Analysis Date	Analytical Batch	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
W	SW8260D	680-704969	1/31/22	704969	Cis-1,2-Dichloroethene	102	103	70	130	1.0	30
W	SW8260D	680-704969	1/31/22	704969	Cis-1,3-Dichloropropene	106	106	70	130	0.0	30
W	SW8260D	680-704969	1/31/22	704969	Dibromochloromethane	111	110	70	130	0.9	30
W	SW8260D	680-704969	1/31/22	704969	Dibromomethane	105	104	70	130	1.0	20
W	SW8260D	680-704969	1/31/22	704969	Ethylbenzene	101	100	70	130	1.0	20
W	SW8260D	680-704969	1/31/22	704969	Mtbe	104	104	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	Methylene Chloride	102	102	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	Iodomethane	100	103	52	129	3.0	20
W	SW8260D	680-704969	1/31/22	704969	Styrene	103	102	70	130	1.0	20
W	SW8260D	680-704969	1/31/22	704969	Tetrachloroethylene	106	117	70	130	9.9	20
W	SW8260D	680-704969	1/31/22	704969	Toluene	104	104	70	130	0.0	20
W	SW8260D	680-704969	1/31/22	704969	Trans-1,2-Dichloroethene	100	101	70	130	1.0	20
W	SW8260D	680-704969	1/31/22	704969	Trans-1,3-Dichloropropene	106	107	70	130	0.9	20
W	SW8260D	680-704969	1/31/22	704969	Trans-1,4-Dichloro-2-Butene	100	100	67	120	0.0	20
W	SW8260D	680-704969	1/31/22	704969	Trichloroethene	105	108	70	130	2.8	20
W	SW8260D	680-704969	1/31/22	704969	Trichlorofluoromethane	94	93	63	142	1.1	20
W	SW8260D	680-704969	1/31/22	704969	Vinyl Chloride	86	84	66	129	2.4	20
W	SW8260D	680-704969	1/31/22	704969	Vinyl Acetate	102	98	67	135	4.0	30
W	SW8260D	680-704969	1/31/22	704969	Xylenes (Total)	100	101	70	130	1.0	30

Notes:

**Table C6-1: Reporting Limits and Method Detection
Limits Compared to MCLs
Former Chemical Laundry, Parcel 94(7)
McClellan, Anniston, Alabama**

Matrix	Method	Parameter Name	MDL	RL	Units	MCL
WG	SW8260B	1,1,1-Trichloroethane	0.37	1	µg/L	200
WG	SW8260B	1,1,2,2-Tetrachloroethane	0.62	1	µg/L	--
WG	SW8260B	1,1,2-Trichloroethane	0.33	1	µg/L	5
WG	SW8260B	1,1-Dichloroethane	0.38	1	µg/L	--
WG	SW8260B	1,1-Dichloroethene	0.36	1	µg/L	7
WG	SW8260B	1,2-Dichloroethane	0.2	1	µg/L	5
WG	SW8260B	1,2-Dichloropropane	0.2	1	µg/L	5
WG	SW8260B	2-Butanone (MEK)	4	10	µg/L	--
WG	SW8260B	2-Hexanone	2.3	10	µg/L	--
WG	SW8260B	4-Methyl-2-Pentanone (MIBK)	4	10	µg/L	--
WG	SW8260B	Acetone	5	10	µg/L	--
WG	SW8260B	Benzene	0.2	1	µg/L	5
WG	SW8260B	Bromodichloromethane	0.2	1	µg/L	80
WG	SW8260B	Bromoform	0.3	1	µg/L	80
WG	SW8260B	Bromomethane	0.3	2	µg/L	--
WG	SW8260B	Carbon Disulfide	0.2	1	µg/L	--
WG	SW8260B	Carbon Tetrachloride	0.2	1	µg/L	5
WG	SW8260B	Chlorobenzene	0.2	1	µg/L	100
WG	SW8260B	Chloroform	0.2	1	µg/L	80
WG	SW8260B	Chloromethane	0.3	2	µg/L	--
WG	SW8260B	Cis-1,2-Dichloroethene	0.2	1	µg/L	70
WG	SW8260B	Dibromochloromethane	0.2	1	µg/L	80
WG	SW8260B	Ethylbenzene	0.2	1	µg/L	700
WG	SW8260B	Methylene Chloride	0.5	2	µg/L	5
WG	SW8260B	Styrene	0.2	1	µg/L	100
WG	SW8260B	Tetrachloroethene	0.2	1	µg/L	5
WG	SW8260B	Toluene	0.2	1	µg/L	1000
WG	SW8260B	Trans-1,2-Dichloroethene	0.2	1	µg/L	100
WG	SW8260B	Trichloroethene	0.48	1	µg/L	5
WG	SW8260B	Vinyl Acetate	0.81	2	µg/L	--
WG	SW8260B	Vinyl Chloride	0.5	1	µg/L	2
WG	SW8260B	Xylenes (Total)	0.23	1	µg/L	10000
WG	SW6010B	Iron	0.017	0.05	mg/L	--
WG	SW6010B	Manganese	0.001	0.01	mg/L	--
WG	SW9056	Nitrate-N	0.023	0.05	mg/L	10
WG	SW9056	Nitrite-N	0.023	0.05	mg/L	1

Notes:

-- = MCL not established.

MCL = Maximum Contaminant Level

MDL = Method detection limit

µg/L = micrograms per liter

mg/L = milligrams per liter

RL = Reporting limit

Indicates the limit is greater than the MCL.

ATTACHMENT C1

Laboratory Data Forms

ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

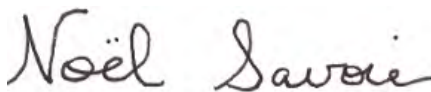
Laboratory Job ID: 680-210495-1

Client Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

For:

Matrix Environmental Services, LLC
707 17th Street
Suite 3150
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt



Authorized for release by:
2/3/2022 10:58:04 PM

Noel Savoie, Project Manager I
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

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Definitions/Glossary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-210495-1	FTA- 94-MW03	Water	01/25/22 09:11	01/26/22 10:45
680-210495-2	FTA- 94-MW11	Water	01/25/22 11:45	01/26/22 10:45
680-210495-3	FTA- 94-MW12	Water	01/25/22 10:41	01/26/22 10:45
680-210495-4	FTA- 94-MW13	Water	01/25/22 10:00	01/26/22 10:45
680-210495-5	FTA- 94-MW15	Water	01/25/22 13:16	01/26/22 10:45
680-210495-6	FTA- 94-MW16	Water	01/25/22 12:11	01/26/22 10:45
680-210495-7	DUP389	Water	01/25/22 00:00	01/26/22 10:45
680-210495-8	TB592	Water	01/25/22 14:30	01/26/22 10:45

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Job ID: 680-210495-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-210495-1

Comments

No additional comments.

Receipt

The samples were received on 1/26/2022 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9° C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-704753 recovered above the upper control limit for Chloroethane and Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-704753.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-704969 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-704769 and 680-704969.

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

HPLC/IC

Method 9056A: The continuing calibration verification (CCV) associated with batch 680-704399 recovered above the upper control limit for Nitrite as N. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

GC Semi VOA

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

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

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: FTA- 94-MW03

Lab Sample ID: 680-210495-1

Date Collected: 01/25/22 09:11

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			01/28/22 17:23	1
Acrylonitrile	5.5	U	20	5.5	ug/L			01/28/22 17:23	1
Benzene	0.27	U	1.0	0.27	ug/L			01/28/22 17:23	1
Bromochloromethane	0.34	U	1.0	0.34	ug/L			01/28/22 17:23	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			01/28/22 17:23	1
Bromoform	0.59	U	1.0	0.59	ug/L			01/28/22 17:23	1
Bromomethane	3.7	U	5.0	3.7	ug/L			01/28/22 17:23	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			01/28/22 17:23	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			01/28/22 17:23	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/28/22 17:23	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/28/22 17:23	1
Chloroethane	4.6	U	5.0	4.6	ug/L			01/28/22 17:23	1
Chloroform	0.27	U	1.0	0.27	ug/L			01/28/22 17:23	1
Chloromethane	0.54	U	1.0	0.54	ug/L			01/28/22 17:23	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			01/28/22 17:23	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			01/28/22 17:23	1
1,2-Dibromoethane	0.33	U	1.0	0.33	ug/L			01/28/22 17:23	1
Dibromomethane	0.34	U	1.0	0.34	ug/L			01/28/22 17:23	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 17:23	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 17:23	1
trans-1,4-Dichloro-2-butene	1.3	U	2.0	1.3	ug/L			01/28/22 17:23	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			01/28/22 17:23	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			01/28/22 17:23	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			01/28/22 17:23	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			01/28/22 17:23	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			01/28/22 17:23	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			01/28/22 17:23	1
1,3-Dichloropropane	0.36	U	1.0	0.36	ug/L			01/28/22 17:23	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			01/28/22 17:23	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			01/28/22 17:23	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			01/28/22 17:23	1
2-Hexanone	3.2	U	10	3.2	ug/L			01/28/22 17:23	1
Iodomethane	3.9	U	10	3.9	ug/L			01/28/22 17:23	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			01/28/22 17:23	1
4-Methyl-2-pentanone (MIBK)	2.7	U	10	2.7	ug/L			01/28/22 17:23	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			01/28/22 17:23	1
Styrene	0.27	U	1.0	0.27	ug/L			01/28/22 17:23	1
1,1,1,2-Tetrachloroethane	0.36	U	1.0	0.36	ug/L			01/28/22 17:23	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			01/28/22 17:23	1
Tetrachloroethylene	0.35	U	0.50	0.35	ug/L			01/28/22 17:23	1
Toluene	0.25	U	1.0	0.25	ug/L			01/28/22 17:23	1
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			01/28/22 17:23	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			01/28/22 17:23	1
Trichloroethene	0.79	J	1.0	0.20	ug/L			01/28/22 17:23	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			01/28/22 17:23	1
1,2,3-Trichloropropane	0.48	U	1.0	0.48	ug/L			01/28/22 17:23	1
Vinyl acetate	0.69	U	2.0	0.69	ug/L			01/28/22 17:23	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			01/28/22 17:23	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			01/28/22 17:23	1

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: FTA- 94-MW03

Lab Sample ID: 680-210495-1

Date Collected: 01/25/22 09:11

Matrix: Water

Date Received: 01/26/22 10:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		01/28/22 17:23	1
1,2-Dichloroethane-d4 (Surr)	97		60 - 124		01/28/22 17:23	1
Dibromofluoromethane (Surr)	100		70 - 130		01/28/22 17:23	1
4-Bromofluorobenzene (Surr)	108		70 - 130		01/28/22 17:23	1

Client Sample ID: FTA- 94-MW11

Lab Sample ID: 680-210495-2

Date Collected: 01/25/22 11:45

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			01/28/22 17:42	1
Acrylonitrile	5.5	U	20	5.5	ug/L			01/28/22 17:42	1
Benzene	0.27	U	1.0	0.27	ug/L			01/28/22 17:42	1
Bromochloromethane	0.34	U	1.0	0.34	ug/L			01/28/22 17:42	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			01/28/22 17:42	1
Bromoform	0.59	U	1.0	0.59	ug/L			01/28/22 17:42	1
Bromomethane	3.7	U	5.0	3.7	ug/L			01/28/22 17:42	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			01/28/22 17:42	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			01/28/22 17:42	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/28/22 17:42	1
Chlorobenzene	69		1.0	0.15	ug/L			01/28/22 17:42	1
Chloroethane	4.6	U	5.0	4.6	ug/L			01/28/22 17:42	1
Chloroform	0.27	U	1.0	0.27	ug/L			01/28/22 17:42	1
Chloromethane	0.54	U	1.0	0.54	ug/L			01/28/22 17:42	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			01/28/22 17:42	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			01/28/22 17:42	1
1,2-Dibromoethane	0.33	U	1.0	0.33	ug/L			01/28/22 17:42	1
Dibromomethane	0.34	U	1.0	0.34	ug/L			01/28/22 17:42	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 17:42	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 17:42	1
trans-1,4-Dichloro-2-butene	1.3	U	2.0	1.3	ug/L			01/28/22 17:42	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			01/28/22 17:42	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			01/28/22 17:42	1
cis-1,2-Dichloroethene	4.5		1.0	0.25	ug/L			01/28/22 17:42	1
trans-1,2-Dichloroethene	2.0		1.0	0.34	ug/L			01/28/22 17:42	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			01/28/22 17:42	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			01/28/22 17:42	1
1,3-Dichloropropane	0.36	U	1.0	0.36	ug/L			01/28/22 17:42	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			01/28/22 17:42	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			01/28/22 17:42	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			01/28/22 17:42	1
2-Hexanone	3.2	U	10	3.2	ug/L			01/28/22 17:42	1
Iodomethane	3.9	U	10	3.9	ug/L			01/28/22 17:42	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			01/28/22 17:42	1
4-Methyl-2-pentanone (MIBK)	2.7	U	10	2.7	ug/L			01/28/22 17:42	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			01/28/22 17:42	1
Styrene	0.27	U	1.0	0.27	ug/L			01/28/22 17:42	1
1,1,1,2-Tetrachloroethane	0.36	U	1.0	0.36	ug/L			01/28/22 17:42	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			01/28/22 17:42	1

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: FTA- 94-MW11

Lab Sample ID: 680-210495-2

Date Collected: 01/25/22 11:45

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethylene	0.35	U	0.50	0.35	ug/L			01/28/22 17:42	1
Toluene	0.25	U	1.0	0.25	ug/L			01/28/22 17:42	1
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			01/28/22 17:42	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			01/28/22 17:42	1
Trichloroethene	40		1.0	0.20	ug/L			01/28/22 17:42	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			01/28/22 17:42	1
1,2,3-Trichloropropane	0.48	U	1.0	0.48	ug/L			01/28/22 17:42	1
Vinyl acetate	0.69	U	2.0	0.69	ug/L			01/28/22 17:42	1
Vinyl chloride	13		1.0	0.40	ug/L			01/28/22 17:42	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			01/28/22 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		01/28/22 17:42	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 124		01/28/22 17:42	1
Dibromofluoromethane (Surr)	101		70 - 130		01/28/22 17:42	1
4-Bromofluorobenzene (Surr)	108		70 - 130		01/28/22 17:42	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	210		0.58	0.57	ug/L			02/01/22 16:31	1
Ethane	0.30	U	1.1	0.30	ug/L			02/01/22 16:31	1
Ethene	2.7		1.0	0.31	ug/L			02/01/22 16:31	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.042	J	0.050	0.023	mg/L			01/26/22 15:38	1
Sulfate	3.1		1.0	0.40	mg/L			01/28/22 15:00	1
Nitrite as N	0.023	U	0.050	0.023	mg/L			01/26/22 15:38	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	220		100	20	ug/L		01/27/22 10:41	01/31/22 18:01	1
Manganese	33		10	1.3	ug/L		01/27/22 10:41	01/31/22 18:01	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	67	J	100	20	ug/L		01/27/22 14:00	01/31/22 19:45	1
Dissolved Manganese	30		10	1.3	ug/L		01/27/22 14:00	01/31/22 19:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.25	0.10	mg/L			01/27/22 13:30	1

Client Sample ID: FTA- 94-MW12

Lab Sample ID: 680-210495-3

Date Collected: 01/25/22 10:41

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			01/28/22 18:01	1
Acrylonitrile	5.5	U	20	5.5	ug/L			01/28/22 18:01	1

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: FTA- 94-MW12

Lab Sample ID: 680-210495-3

Date Collected: 01/25/22 10:41

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.27	U	1.0	0.27	ug/L			01/28/22 18:01	1
Bromochloromethane	0.34	U	1.0	0.34	ug/L			01/28/22 18:01	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			01/28/22 18:01	1
Bromoform	0.59	U	1.0	0.59	ug/L			01/28/22 18:01	1
Bromomethane	3.7	U	5.0	3.7	ug/L			01/28/22 18:01	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			01/28/22 18:01	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			01/28/22 18:01	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/28/22 18:01	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/28/22 18:01	1
Chloroethane	4.6	U	5.0	4.6	ug/L			01/28/22 18:01	1
Chloroform	0.27	U	1.0	0.27	ug/L			01/28/22 18:01	1
Chloromethane	0.54	U	1.0	0.54	ug/L			01/28/22 18:01	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			01/28/22 18:01	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			01/28/22 18:01	1
1,2-Dibromoethane	0.33	U	1.0	0.33	ug/L			01/28/22 18:01	1
Dibromomethane	0.34	U	1.0	0.34	ug/L			01/28/22 18:01	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 18:01	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 18:01	1
trans-1,4-Dichloro-2-butene	1.3	U	2.0	1.3	ug/L			01/28/22 18:01	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			01/28/22 18:01	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			01/28/22 18:01	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			01/28/22 18:01	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			01/28/22 18:01	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			01/28/22 18:01	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			01/28/22 18:01	1
1,3-Dichloropropane	0.36	U	1.0	0.36	ug/L			01/28/22 18:01	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			01/28/22 18:01	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			01/28/22 18:01	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			01/28/22 18:01	1
2-Hexanone	3.2	U	10	3.2	ug/L			01/28/22 18:01	1
Iodomethane	3.9	U	10	3.9	ug/L			01/28/22 18:01	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			01/28/22 18:01	1
4-Methyl-2-pentanone (MIBK)	2.7	U	10	2.7	ug/L			01/28/22 18:01	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			01/28/22 18:01	1
Styrene	0.27	U	1.0	0.27	ug/L			01/28/22 18:01	1
1,1,1,2-Tetrachloroethane	0.36	U	1.0	0.36	ug/L			01/28/22 18:01	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			01/28/22 18:01	1
Tetrachloroethylene	0.35	U	0.50	0.35	ug/L			01/28/22 18:01	1
Toluene	0.25	U	1.0	0.25	ug/L			01/28/22 18:01	1
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			01/28/22 18:01	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			01/28/22 18:01	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			01/28/22 18:01	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			01/28/22 18:01	1
1,2,3-Trichloropropane	0.48	U	1.0	0.48	ug/L			01/28/22 18:01	1
Vinyl acetate	0.69	U	2.0	0.69	ug/L			01/28/22 18:01	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			01/28/22 18:01	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			01/28/22 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		01/28/22 18:01	1

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: FTA- 94-MW12

Lab Sample ID: 680-210495-3

Date Collected: 01/25/22 10:41

Matrix: Water

Date Received: 01/26/22 10:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		60 - 124		01/28/22 18:01	1
Dibromofluoromethane (Surr)	103		70 - 130		01/28/22 18:01	1
4-Bromofluorobenzene (Surr)	114		70 - 130		01/28/22 18:01	1

Client Sample ID: FTA- 94-MW13

Lab Sample ID: 680-210495-4

Date Collected: 01/25/22 10:00

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			01/28/22 16:25	1
Acrylonitrile	5.5	U	20	5.5	ug/L			01/28/22 16:25	1
Bromochloromethane	0.34	U	1.0	0.34	ug/L			01/28/22 16:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			01/28/22 16:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			01/28/22 16:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			01/28/22 16:25	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			01/28/22 16:25	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			01/28/22 16:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/28/22 16:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/28/22 16:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			01/28/22 16:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			01/28/22 16:25	1
Chloromethane	0.54	U	1.0	0.54	ug/L			01/28/22 16:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			01/28/22 16:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			01/28/22 16:25	1
1,2-Dibromoethane	0.33	U	1.0	0.33	ug/L			01/28/22 16:25	1
Dibromomethane	0.34	U	1.0	0.34	ug/L			01/28/22 16:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 16:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 16:25	1
trans-1,4-Dichloro-2-butene	1.3	U	2.0	1.3	ug/L			01/28/22 16:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			01/28/22 16:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			01/28/22 16:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			01/28/22 16:25	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			01/28/22 16:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			01/28/22 16:25	1
1,3-Dichloropropane	0.36	U	1.0	0.36	ug/L			01/28/22 16:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			01/28/22 16:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			01/28/22 16:25	1
2-Hexanone	3.2	U	10	3.2	ug/L			01/28/22 16:25	1
Iodomethane	3.9	U	10	3.9	ug/L			01/28/22 16:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			01/28/22 16:25	1
4-Methyl-2-pentanone (MIBK)	2.7	U	10	2.7	ug/L			01/28/22 16:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			01/28/22 16:25	1
Styrene	0.27	U	1.0	0.27	ug/L			01/28/22 16:25	1
1,1,1,2-Tetrachloroethane	0.36	U	1.0	0.36	ug/L			01/28/22 16:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			01/28/22 16:25	1
Tetrachloroethylene	0.35	U	0.50	0.35	ug/L			01/28/22 16:25	1
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			01/28/22 16:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			01/28/22 16:25	1

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: FTA- 94-MW13

Lab Sample ID: 680-210495-4

Date Collected: 01/25/22 10:00

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			01/28/22 16:25	1
1,2,3-Trichloropropane	0.48	U	1.0	0.48	ug/L			01/28/22 16:25	1
Vinyl acetate	0.69	U	2.0	0.69	ug/L			01/28/22 16:25	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			01/28/22 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130					01/28/22 16:25	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 124					01/28/22 16:25	1
Dibromofluoromethane (Surr)	111		70 - 130					01/28/22 16:25	1
4-Bromofluorobenzene (Surr)	101		70 - 130					01/28/22 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.27	U	1.0	0.27	ug/L			01/31/22 14:33	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			01/31/22 14:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			01/31/22 14:33	1
Toluene	0.25	U	1.0	0.25	ug/L			01/31/22 14:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			01/31/22 14:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			01/31/22 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					01/31/22 14:33	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 124					01/31/22 14:33	1
Dibromofluoromethane (Surr)	103		70 - 130					01/31/22 14:33	1
4-Bromofluorobenzene (Surr)	111		70 - 130					01/31/22 14:33	1

Client Sample ID: FTA- 94-MW15

Lab Sample ID: 680-210495-5

Date Collected: 01/25/22 13:16

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			01/28/22 16:48	1
Acrylonitrile	5.5	U	20	5.5	ug/L			01/28/22 16:48	1
Benzene	0.27	U	1.0	0.27	ug/L			01/28/22 16:48	1
Bromochloromethane	0.34	U	1.0	0.34	ug/L			01/28/22 16:48	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			01/28/22 16:48	1
Bromoform	0.59	U	1.0	0.59	ug/L			01/28/22 16:48	1
Bromomethane	3.7	U	5.0	3.7	ug/L			01/28/22 16:48	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			01/28/22 16:48	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			01/28/22 16:48	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/28/22 16:48	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/28/22 16:48	1
Chloroethane	4.6	U	5.0	4.6	ug/L			01/28/22 16:48	1
Chloroform	0.27	U	1.0	0.27	ug/L			01/28/22 16:48	1
Chloromethane	0.54	U	1.0	0.54	ug/L			01/28/22 16:48	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			01/28/22 16:48	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			01/28/22 16:48	1
1,2-Dibromoethane	0.33	U	1.0	0.33	ug/L			01/28/22 16:48	1
Dibromomethane	0.34	U	1.0	0.34	ug/L			01/28/22 16:48	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 16:48	1

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: FTA- 94-MW15

Lab Sample ID: 680-210495-5

Date Collected: 01/25/22 13:16

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 16:48	1
trans-1,4-Dichloro-2-butene	1.3	U	2.0	1.3	ug/L			01/28/22 16:48	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			01/28/22 16:48	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			01/28/22 16:48	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			01/28/22 16:48	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			01/28/22 16:48	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			01/28/22 16:48	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			01/28/22 16:48	1
1,3-Dichloropropane	0.36	U	1.0	0.36	ug/L			01/28/22 16:48	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			01/28/22 16:48	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			01/28/22 16:48	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			01/28/22 16:48	1
2-Hexanone	3.2	U	10	3.2	ug/L			01/28/22 16:48	1
Iodomethane	3.9	U	10	3.9	ug/L			01/28/22 16:48	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			01/28/22 16:48	1
4-Methyl-2-pentanone (MIBK)	2.7	U	10	2.7	ug/L			01/28/22 16:48	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			01/28/22 16:48	1
Styrene	0.27	U	1.0	0.27	ug/L			01/28/22 16:48	1
1,1,1,2-Tetrachloroethane	0.36	U	1.0	0.36	ug/L			01/28/22 16:48	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			01/28/22 16:48	1
Tetrachloroethylene	0.35	U	0.50	0.35	ug/L			01/28/22 16:48	1
Toluene	0.25	U	1.0	0.25	ug/L			01/28/22 16:48	1
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			01/28/22 16:48	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			01/28/22 16:48	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			01/28/22 16:48	1
1,2,3-Trichloropropane	0.48	U	1.0	0.48	ug/L			01/28/22 16:48	1
Vinyl acetate	0.69	U	2.0	0.69	ug/L			01/28/22 16:48	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			01/28/22 16:48	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			01/28/22 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		70 - 130		01/28/22 16:48	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 124		01/28/22 16:48	1
Dibromofluoromethane (Surr)	107		70 - 130		01/28/22 16:48	1
4-Bromofluorobenzene (Surr)	101		70 - 130		01/28/22 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.20	U	1.0	0.20	ug/L			01/31/22 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		01/31/22 14:52	1
1,2-Dichloroethane-d4 (Surr)	97		60 - 124		01/31/22 14:52	1
Dibromofluoromethane (Surr)	102		70 - 130		01/31/22 14:52	1
4-Bromofluorobenzene (Surr)	110		70 - 130		01/31/22 14:52	1

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: FTA- 94-MW16

Lab Sample ID: 680-210495-6

Date Collected: 01/25/22 12:11

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			01/28/22 18:20	1
Acrylonitrile	5.5	U	20	5.5	ug/L			01/28/22 18:20	1
Benzene	0.27	U	1.0	0.27	ug/L			01/28/22 18:20	1
Bromochloromethane	0.34	U	1.0	0.34	ug/L			01/28/22 18:20	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			01/28/22 18:20	1
Bromoform	0.59	U	1.0	0.59	ug/L			01/28/22 18:20	1
Bromomethane	3.7	U	5.0	3.7	ug/L			01/28/22 18:20	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			01/28/22 18:20	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			01/28/22 18:20	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/28/22 18:20	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/28/22 18:20	1
Chloroethane	4.6	U	5.0	4.6	ug/L			01/28/22 18:20	1
Chloroform	0.27	U	1.0	0.27	ug/L			01/28/22 18:20	1
Chloromethane	0.54	U	1.0	0.54	ug/L			01/28/22 18:20	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			01/28/22 18:20	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			01/28/22 18:20	1
1,2-Dibromoethane	0.33	U	1.0	0.33	ug/L			01/28/22 18:20	1
Dibromomethane	0.34	U	1.0	0.34	ug/L			01/28/22 18:20	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 18:20	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 18:20	1
trans-1,4-Dichloro-2-butene	1.3	U	2.0	1.3	ug/L			01/28/22 18:20	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			01/28/22 18:20	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			01/28/22 18:20	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			01/28/22 18:20	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			01/28/22 18:20	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			01/28/22 18:20	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			01/28/22 18:20	1
1,3-Dichloropropane	0.36	U	1.0	0.36	ug/L			01/28/22 18:20	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			01/28/22 18:20	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			01/28/22 18:20	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			01/28/22 18:20	1
2-Hexanone	3.2	U	10	3.2	ug/L			01/28/22 18:20	1
Iodomethane	3.9	U	10	3.9	ug/L			01/28/22 18:20	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			01/28/22 18:20	1
4-Methyl-2-pentanone (MIBK)	2.7	U	10	2.7	ug/L			01/28/22 18:20	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			01/28/22 18:20	1
Styrene	0.27	U	1.0	0.27	ug/L			01/28/22 18:20	1
1,1,1,2-Tetrachloroethane	0.36	U	1.0	0.36	ug/L			01/28/22 18:20	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			01/28/22 18:20	1
Tetrachloroethylene	0.35	U	0.50	0.35	ug/L			01/28/22 18:20	1
Toluene	0.25	U	1.0	0.25	ug/L			01/28/22 18:20	1
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			01/28/22 18:20	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			01/28/22 18:20	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			01/28/22 18:20	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			01/28/22 18:20	1
1,2,3-Trichloropropane	0.48	U	1.0	0.48	ug/L			01/28/22 18:20	1
Vinyl acetate	0.69	U	2.0	0.69	ug/L			01/28/22 18:20	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			01/28/22 18:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			01/28/22 18:20	1

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: FTA- 94-MW16

Lab Sample ID: 680-210495-6

Date Collected: 01/25/22 12:11

Matrix: Water

Date Received: 01/26/22 10:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		01/28/22 18:20	1
1,2-Dichloroethane-d4 (Surr)	97		60 - 124		01/28/22 18:20	1
Dibromofluoromethane (Surr)	102		70 - 130		01/28/22 18:20	1
4-Bromofluorobenzene (Surr)	107		70 - 130		01/28/22 18:20	1

Client Sample ID: DUP389

Lab Sample ID: 680-210495-7

Date Collected: 01/25/22 00:00

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			01/28/22 18:39	1
Acrylonitrile	5.5	U	20	5.5	ug/L			01/28/22 18:39	1
Benzene	0.27	U	1.0	0.27	ug/L			01/28/22 18:39	1
Bromochloromethane	0.34	U	1.0	0.34	ug/L			01/28/22 18:39	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			01/28/22 18:39	1
Bromoform	0.59	U	1.0	0.59	ug/L			01/28/22 18:39	1
Bromomethane	3.7	U	5.0	3.7	ug/L			01/28/22 18:39	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			01/28/22 18:39	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			01/28/22 18:39	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/28/22 18:39	1
Chlorobenzene	68		1.0	0.15	ug/L			01/28/22 18:39	1
Chloroethane	4.6	U	5.0	4.6	ug/L			01/28/22 18:39	1
Chloroform	0.27	U	1.0	0.27	ug/L			01/28/22 18:39	1
Chloromethane	0.54	U	1.0	0.54	ug/L			01/28/22 18:39	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			01/28/22 18:39	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			01/28/22 18:39	1
1,2-Dibromoethane	0.33	U	1.0	0.33	ug/L			01/28/22 18:39	1
Dibromomethane	0.34	U	1.0	0.34	ug/L			01/28/22 18:39	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 18:39	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 18:39	1
trans-1,4-Dichloro-2-butene	1.3	U	2.0	1.3	ug/L			01/28/22 18:39	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			01/28/22 18:39	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			01/28/22 18:39	1
cis-1,2-Dichloroethene	4.4		1.0	0.25	ug/L			01/28/22 18:39	1
trans-1,2-Dichloroethene	1.9		1.0	0.34	ug/L			01/28/22 18:39	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			01/28/22 18:39	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			01/28/22 18:39	1
1,3-Dichloropropane	0.36	U	1.0	0.36	ug/L			01/28/22 18:39	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			01/28/22 18:39	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			01/28/22 18:39	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			01/28/22 18:39	1
2-Hexanone	3.2	U	10	3.2	ug/L			01/28/22 18:39	1
Iodomethane	3.9	U	10	3.9	ug/L			01/28/22 18:39	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			01/28/22 18:39	1
4-Methyl-2-pentanone (MIBK)	2.7	U	10	2.7	ug/L			01/28/22 18:39	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			01/28/22 18:39	1
Styrene	0.27	U	1.0	0.27	ug/L			01/28/22 18:39	1
1,1,1,2-Tetrachloroethane	0.36	U	1.0	0.36	ug/L			01/28/22 18:39	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			01/28/22 18:39	1

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: DUP389

Lab Sample ID: 680-210495-7

Date Collected: 01/25/22 00:00

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethylene	0.35	U	0.50	0.35	ug/L			01/28/22 18:39	1
Toluene	0.25	U	1.0	0.25	ug/L			01/28/22 18:39	1
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			01/28/22 18:39	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			01/28/22 18:39	1
Trichloroethene	38		1.0	0.20	ug/L			01/28/22 18:39	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			01/28/22 18:39	1
1,2,3-Trichloropropane	0.48	U	1.0	0.48	ug/L			01/28/22 18:39	1
Vinyl acetate	0.69	U	2.0	0.69	ug/L			01/28/22 18:39	1
Vinyl chloride	13		1.0	0.40	ug/L			01/28/22 18:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			01/28/22 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		01/28/22 18:39	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 124		01/28/22 18:39	1
Dibromofluoromethane (Surr)	101		70 - 130		01/28/22 18:39	1
4-Bromofluorobenzene (Surr)	104		70 - 130		01/28/22 18:39	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	220		0.58	0.57	ug/L			02/01/22 16:44	1
Ethane	0.30	U	1.1	0.30	ug/L			02/01/22 16:44	1
Ethene	2.8		1.0	0.31	ug/L			02/01/22 16:44	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.042	J	0.050	0.023	mg/L			01/26/22 14:53	1
Sulfate	3.1		1.0	0.40	mg/L			01/28/22 15:13	1
Nitrite as N	0.023	U	0.050	0.023	mg/L			01/26/22 14:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	240		100	20	ug/L		01/27/22 10:41	01/31/22 18:06	1
Manganese	33		10	1.3	ug/L		01/27/22 10:41	01/31/22 18:06	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	67	J	100	20	ug/L		01/27/22 14:00	01/31/22 20:11	1
Dissolved Manganese	31		10	1.3	ug/L		01/27/22 14:00	01/31/22 20:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.25	0.10	mg/L			01/27/22 13:59	1

Client Sample ID: TB592

Lab Sample ID: 680-210495-8

Date Collected: 01/25/22 14:30

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			01/28/22 16:07	1
Acrylonitrile	5.5	U	20	5.5	ug/L			01/28/22 16:07	1

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: TB592

Lab Sample ID: 680-210495-8

Date Collected: 01/25/22 14:30

Matrix: Water

Date Received: 01/26/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.27	U	1.0	0.27	ug/L			01/28/22 16:07	1
Bromochloromethane	0.34	U	1.0	0.34	ug/L			01/28/22 16:07	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			01/28/22 16:07	1
Bromoform	0.59	U	1.0	0.59	ug/L			01/28/22 16:07	1
Bromomethane	3.7	U	5.0	3.7	ug/L			01/28/22 16:07	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			01/28/22 16:07	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			01/28/22 16:07	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/28/22 16:07	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/28/22 16:07	1
Chloroethane	4.6	U	5.0	4.6	ug/L			01/28/22 16:07	1
Chloroform	0.27	U	1.0	0.27	ug/L			01/28/22 16:07	1
Chloromethane	0.54	U	1.0	0.54	ug/L			01/28/22 16:07	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			01/28/22 16:07	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			01/28/22 16:07	1
1,2-Dibromoethane	0.33	U	1.0	0.33	ug/L			01/28/22 16:07	1
Dibromomethane	0.34	U	1.0	0.34	ug/L			01/28/22 16:07	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 16:07	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 16:07	1
trans-1,4-Dichloro-2-butene	1.3	U	2.0	1.3	ug/L			01/28/22 16:07	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			01/28/22 16:07	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			01/28/22 16:07	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			01/28/22 16:07	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			01/28/22 16:07	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			01/28/22 16:07	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			01/28/22 16:07	1
1,3-Dichloropropane	0.36	U	1.0	0.36	ug/L			01/28/22 16:07	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			01/28/22 16:07	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			01/28/22 16:07	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			01/28/22 16:07	1
2-Hexanone	3.2	U	10	3.2	ug/L			01/28/22 16:07	1
Iodomethane	3.9	U	10	3.9	ug/L			01/28/22 16:07	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			01/28/22 16:07	1
4-Methyl-2-pentanone (MIBK)	2.7	U	10	2.7	ug/L			01/28/22 16:07	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			01/28/22 16:07	1
Styrene	0.27	U	1.0	0.27	ug/L			01/28/22 16:07	1
1,1,1,2-Tetrachloroethane	0.36	U	1.0	0.36	ug/L			01/28/22 16:07	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			01/28/22 16:07	1
Tetrachloroethylene	0.35	U	0.50	0.35	ug/L			01/28/22 16:07	1
Toluene	0.25	U	1.0	0.25	ug/L			01/28/22 16:07	1
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			01/28/22 16:07	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			01/28/22 16:07	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			01/28/22 16:07	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			01/28/22 16:07	1
1,2,3-Trichloropropane	0.48	U	1.0	0.48	ug/L			01/28/22 16:07	1
Vinyl acetate	0.69	U	2.0	0.69	ug/L			01/28/22 16:07	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			01/28/22 16:07	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			01/28/22 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		01/28/22 16:07	1

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: TB592

Lab Sample ID: 680-210495-8

Date Collected: 01/25/22 14:30

Matrix: Water

Date Received: 01/26/22 10:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		60 - 124		01/28/22 16:07	1
Dibromofluoromethane (Surr)	101		70 - 130		01/28/22 16:07	1
4-Bromofluorobenzene (Surr)	106		70 - 130		01/28/22 16:07	1

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: MB 680-704753/8

Matrix: Water

Analysis Batch: 704753

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			01/28/22 12:51	1
Acrylonitrile	5.5	U	20	5.5	ug/L			01/28/22 12:51	1
Benzene	0.27	U	1.0	0.27	ug/L			01/28/22 12:51	1
Bromochloromethane	0.34	U	1.0	0.34	ug/L			01/28/22 12:51	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			01/28/22 12:51	1
Bromoform	0.59	U	1.0	0.59	ug/L			01/28/22 12:51	1
Bromomethane	3.7	U	5.0	3.7	ug/L			01/28/22 12:51	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			01/28/22 12:51	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			01/28/22 12:51	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/28/22 12:51	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/28/22 12:51	1
Chloroethane	4.6	U	5.0	4.6	ug/L			01/28/22 12:51	1
Chloroform	0.27	U	1.0	0.27	ug/L			01/28/22 12:51	1
Chloromethane	0.54	U	1.0	0.54	ug/L			01/28/22 12:51	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			01/28/22 12:51	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			01/28/22 12:51	1
1,2-Dibromoethane	0.33	U	1.0	0.33	ug/L			01/28/22 12:51	1
Dibromomethane	0.34	U	1.0	0.34	ug/L			01/28/22 12:51	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 12:51	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 12:51	1
trans-1,4-Dichloro-2-butene	1.3	U	2.0	1.3	ug/L			01/28/22 12:51	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			01/28/22 12:51	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			01/28/22 12:51	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			01/28/22 12:51	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			01/28/22 12:51	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			01/28/22 12:51	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			01/28/22 12:51	1
1,3-Dichloropropane	0.36	U	1.0	0.36	ug/L			01/28/22 12:51	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			01/28/22 12:51	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			01/28/22 12:51	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			01/28/22 12:51	1
2-Hexanone	3.2	U	10	3.2	ug/L			01/28/22 12:51	1
Iodomethane	3.9	U	10	3.9	ug/L			01/28/22 12:51	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			01/28/22 12:51	1
4-Methyl-2-pentanone (MIBK)	2.7	U	10	2.7	ug/L			01/28/22 12:51	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			01/28/22 12:51	1
Styrene	0.27	U	1.0	0.27	ug/L			01/28/22 12:51	1
1,1,1,2-Tetrachloroethane	0.36	U	1.0	0.36	ug/L			01/28/22 12:51	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			01/28/22 12:51	1
Tetrachloroethylene	0.35	U	0.50	0.35	ug/L			01/28/22 12:51	1
Toluene	0.25	U	1.0	0.25	ug/L			01/28/22 12:51	1
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			01/28/22 12:51	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			01/28/22 12:51	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			01/28/22 12:51	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			01/28/22 12:51	1
1,2,3-Trichloropropane	0.48	U	1.0	0.48	ug/L			01/28/22 12:51	1
Vinyl acetate	0.69	U	2.0	0.69	ug/L			01/28/22 12:51	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			01/28/22 12:51	1

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: MB 680-704753/8

Matrix: Water

Analysis Batch: 704753

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			01/28/22 12:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		01/28/22 12:51	1
1,2-Dichloroethane-d4 (Surr)	97		60 - 124		01/28/22 12:51	1
Dibromofluoromethane (Surr)	102		70 - 130		01/28/22 12:51	1
4-Bromofluorobenzene (Surr)	106		70 - 130		01/28/22 12:51	1

Lab Sample ID: LCS 680-704753/3

Matrix: Water

Analysis Batch: 704753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	222		ug/L		89	67 - 120
Acrylonitrile	500	478		ug/L		96	70 - 130
Benzene	50.0	47.7		ug/L		95	70 - 130
Bromochloromethane	50.0	46.9		ug/L		94	70 - 130
Bromodichloromethane	50.0	50.4		ug/L		101	70 - 130
Bromoform	50.0	44.0		ug/L		88	69 - 129
Bromomethane	50.0	62.0		ug/L		124	28 - 192
2-Butanone (MEK)	250	240		ug/L		96	69 - 120
Carbon disulfide	50.0	41.3		ug/L		83	70 - 130
Carbon tetrachloride	50.0	48.7		ug/L		97	70 - 130
Chlorobenzene	50.0	49.8		ug/L		100	70 - 130
Chloroethane	50.0	58.2		ug/L		116	31 - 213
Chloroform	50.0	47.4		ug/L		95	70 - 130
Chloromethane	50.0	45.5		ug/L		91	59 - 127
Dibromochloromethane	50.0	53.4		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	46.8		ug/L		94	70 - 130
1,2-Dibromoethane	50.0	52.3		ug/L		105	70 - 130
Dibromomethane	50.0	49.5		ug/L		99	70 - 130
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
trans-1,4-Dichloro-2-butene	50.0	51.4		ug/L		103	67 - 120
1,1-Dichloroethane	50.0	45.5		ug/L		91	70 - 130
1,2-Dichloroethane	50.0	49.6		ug/L		99	70 - 130
cis-1,2-Dichloroethene	50.0	47.7		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	45.1		ug/L		90	70 - 130
1,1-Dichloroethene	50.0	44.1		ug/L		88	70 - 130
1,2-Dichloropropane	50.0	48.6		ug/L		97	70 - 130
1,3-Dichloropropane	50.0	50.2		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	49.9		ug/L		100	70 - 130
trans-1,3-Dichloropropene	50.0	52.0		ug/L		104	70 - 130
Ethylbenzene	50.0	48.9		ug/L		98	70 - 130
2-Hexanone	250	244		ug/L		98	70 - 130
Iodomethane	50.0	45.7		ug/L		91	52 - 129
Methylene Chloride	50.0	45.7		ug/L		91	70 - 130
4-Methyl-2-pentanone (MIBK)	250	254		ug/L		101	68 - 120

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: LCS 680-704753/3

Matrix: Water

Analysis Batch: 704753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	48.3		ug/L		97	70 - 130
Styrene	50.0	48.7		ug/L		97	70 - 130
1,1,1,2-Tetrachloroethane	50.0	54.9		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/L		103	70 - 130
Tetrachloroethylene	50.0	50.1		ug/L		100	70 - 130
Toluene	50.0	49.4		ug/L		99	70 - 130
1,1,1-Trichloroethane	50.0	46.8		ug/L		94	70 - 130
1,1,2-Trichloroethane	50.0	52.6		ug/L		105	70 - 130
Trichloroethene	50.0	49.6		ug/L		99	70 - 130
Trichlorofluoromethane	50.0	46.6		ug/L		93	63 - 142
1,2,3-Trichloropropane	50.0	51.3		ug/L		103	70 - 130
Vinyl acetate	100	97.2		ug/L		97	67 - 135
Vinyl chloride	50.0	43.9		ug/L		88	66 - 129
Xylenes, Total	100	98.2		ug/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		60 - 124
Dibromofluoromethane (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 680-704753/4

Matrix: Water

Analysis Batch: 704753

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
Acetone	250	221		ug/L		88	67 - 120	1	30
Acrylonitrile	500	477		ug/L		95	70 - 130	0	30
Benzene	50.0	48.6		ug/L		97	70 - 130	2	30
Bromochloromethane	50.0	47.5		ug/L		95	70 - 130	1	30
Bromodichloromethane	50.0	51.2		ug/L		102	70 - 130	1	30
Bromoform	50.0	44.2		ug/L		88	69 - 129	0	30
Bromomethane	50.0	63.1		ug/L		126	28 - 192	2	30
2-Butanone (MEK)	250	240		ug/L		96	69 - 120	0	30
Carbon disulfide	50.0	42.4		ug/L		85	70 - 130	3	30
Carbon tetrachloride	50.0	49.3		ug/L		99	70 - 130	1	30
Chlorobenzene	50.0	49.6		ug/L		99	70 - 130	0	30
Chloroethane	50.0	59.2		ug/L		118	31 - 213	2	30
Chloroform	50.0	48.2		ug/L		96	70 - 130	2	30
Chloromethane	50.0	47.2		ug/L		94	59 - 127	4	30
Dibromochloromethane	50.0	55.2		ug/L		110	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	50.0	46.7		ug/L		93	70 - 130	0	30
1,2-Dibromoethane	50.0	52.7		ug/L		105	70 - 130	1	30
Dibromomethane	50.0	50.0		ug/L		100	70 - 130	1	30
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	70 - 130	1	30
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	70 - 130	1	30
trans-1,4-Dichloro-2-butene	50.0	50.9		ug/L		102	67 - 120	1	30
1,1-Dichloroethane	50.0	46.4		ug/L		93	70 - 130	2	30

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: LCSD 680-704753/4

Matrix: Water

Analysis Batch: 704753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	50.0	49.4		ug/L		99	70 - 130	0	50
cis-1,2-Dichloroethene	50.0	48.4		ug/L		97	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	46.5		ug/L		93	70 - 130	3	30
1,1-Dichloroethene	50.0	45.2		ug/L		90	70 - 130	3	20
1,2-Dichloropropane	50.0	49.0		ug/L		98	70 - 130	1	20
1,3-Dichloropropane	50.0	50.9		ug/L		102	70 - 130	1	20
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	70 - 130	1	20
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	70 - 130	0	30
Ethylbenzene	50.0	49.1		ug/L		98	70 - 130	0	20
2-Hexanone	250	248		ug/L		99	70 - 130	2	20
Iodomethane	50.0	47.7		ug/L		95	52 - 129	4	30
Methylene Chloride	50.0	46.2		ug/L		92	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	250	258		ug/L		103	68 - 120	2	30
Methyl tert-butyl ether	50.0	48.6		ug/L		97	70 - 130	1	30
Styrene	50.0	48.7		ug/L		97	70 - 130	0	30
1,1,1,2-Tetrachloroethane	50.0	54.6		ug/L		109	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L		102	70 - 130	1	30
Tetrachloroethylene	50.0	52.5		ug/L		105	70 - 130	5	30
Toluene	50.0	50.2		ug/L		100	70 - 130	2	30
1,1,1-Trichloroethane	50.0	48.0		ug/L		96	70 - 130	2	30
1,1,2-Trichloroethane	50.0	52.3		ug/L		105	70 - 130	1	30
Trichloroethene	50.0	50.4		ug/L		101	70 - 130	2	30
Trichlorofluoromethane	50.0	47.5		ug/L		95	63 - 142	2	30
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	70 - 130	1	30
Vinyl acetate	100	98.7		ug/L		99	67 - 135	1	30
Vinyl chloride	50.0	45.3		ug/L		91	66 - 129	3	30
Xylenes, Total	100	98.5		ug/L		99	70 - 130	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		60 - 124
Dibromofluoromethane (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 680-704769/8

Matrix: Water

Analysis Batch: 704769

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			01/28/22 13:12	1
Acrylonitrile	5.5	U	20	5.5	ug/L			01/28/22 13:12	1
Benzene	0.27	U	1.0	0.27	ug/L			01/28/22 13:12	1
Bromochloromethane	0.34	U	1.0	0.34	ug/L			01/28/22 13:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			01/28/22 13:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			01/28/22 13:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			01/28/22 13:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			01/28/22 13:12	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			01/28/22 13:12	1

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: MB 680-704769/8

Matrix: Water

Analysis Batch: 704769

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/28/22 13:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/28/22 13:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			01/28/22 13:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			01/28/22 13:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			01/28/22 13:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			01/28/22 13:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			01/28/22 13:12	1
1,2-Dibromoethane	0.33	U	1.0	0.33	ug/L			01/28/22 13:12	1
Dibromomethane	0.34	U	1.0	0.34	ug/L			01/28/22 13:12	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 13:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/28/22 13:12	1
trans-1,4-Dichloro-2-butene	1.3	U	2.0	1.3	ug/L			01/28/22 13:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			01/28/22 13:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			01/28/22 13:12	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			01/28/22 13:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			01/28/22 13:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			01/28/22 13:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			01/28/22 13:12	1
1,3-Dichloropropane	0.36	U	1.0	0.36	ug/L			01/28/22 13:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			01/28/22 13:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			01/28/22 13:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			01/28/22 13:12	1
2-Hexanone	3.2	U	10	3.2	ug/L			01/28/22 13:12	1
Iodomethane	3.9	U	10	3.9	ug/L			01/28/22 13:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			01/28/22 13:12	1
4-Methyl-2-pentanone (MIBK)	2.7	U	10	2.7	ug/L			01/28/22 13:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			01/28/22 13:12	1
Styrene	0.27	U	1.0	0.27	ug/L			01/28/22 13:12	1
1,1,1,2-Tetrachloroethane	0.36	U	1.0	0.36	ug/L			01/28/22 13:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			01/28/22 13:12	1
Tetrachloroethylene	0.35	U	0.50	0.35	ug/L			01/28/22 13:12	1
Toluene	0.25	U	1.0	0.25	ug/L			01/28/22 13:12	1
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			01/28/22 13:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			01/28/22 13:12	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			01/28/22 13:12	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			01/28/22 13:12	1
1,2,3-Trichloropropane	0.48	U	1.0	0.48	ug/L			01/28/22 13:12	1
Vinyl acetate	0.69	U	2.0	0.69	ug/L			01/28/22 13:12	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			01/28/22 13:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			01/28/22 13:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		70 - 130		01/28/22 13:12	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 124		01/28/22 13:12	1
Dibromofluoromethane (Surr)	109		70 - 130		01/28/22 13:12	1
4-Bromofluorobenzene (Surr)	104		70 - 130		01/28/22 13:12	1

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: LCS 680-704769/3

Matrix: Water

Analysis Batch: 704769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	254		ug/L		102	67 - 120
Acrylonitrile	500	517		ug/L		103	70 - 130
Benzene	50.0	49.7		ug/L		99	70 - 130
Bromochloromethane	50.0	49.2		ug/L		98	70 - 130
Bromodichloromethane	50.0	46.5		ug/L		93	70 - 130
Bromoform	50.0	42.1		ug/L		84	69 - 129
Bromomethane	50.0	47.3		ug/L		95	28 - 192
2-Butanone (MEK)	250	227		ug/L		91	69 - 120
Carbon disulfide	50.0	45.2		ug/L		90	70 - 130
Carbon tetrachloride	50.0	47.5		ug/L		95	70 - 130
Chlorobenzene	50.0	49.4		ug/L		99	70 - 130
Chloroethane	50.0	47.2		ug/L		94	31 - 213
Chloroform	50.0	50.8		ug/L		102	70 - 130
Chloromethane	50.0	53.4		ug/L		107	59 - 127
Dibromochloromethane	50.0	48.4		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.0		ug/L		98	70 - 130
1,2-Dibromoethane	50.0	51.9		ug/L		104	70 - 130
Dibromomethane	50.0	51.3		ug/L		103	70 - 130
1,2-Dichlorobenzene	50.0	52.9		ug/L		106	70 - 130
1,4-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 130
trans-1,4-Dichloro-2-butene	50.0	48.6		ug/L		97	67 - 120
1,1-Dichloroethane	50.0	49.6		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	48.9		ug/L		98	70 - 130
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	49.8		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	48.8		ug/L		98	70 - 130
1,2-Dichloropropane	50.0	52.0		ug/L		104	70 - 130
1,3-Dichloropropane	50.0	52.3		ug/L		105	70 - 130
cis-1,3-Dichloropropene	50.0	46.8		ug/L		94	70 - 130
trans-1,3-Dichloropropene	50.0	46.7		ug/L		93	70 - 130
Ethylbenzene	50.0	51.0		ug/L		102	70 - 130
2-Hexanone	250	275		ug/L		110	70 - 130
Iodomethane	50.0	50.1		ug/L		100	52 - 129
Methylene Chloride	50.0	49.1		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	250	268		ug/L		107	68 - 120
Methyl tert-butyl ether	50.0	49.6		ug/L		99	70 - 130
Styrene	50.0	51.4		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	50.0	46.7		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.3		ug/L		105	70 - 130
Tetrachloroethylene	50.0	51.9		ug/L		104	70 - 130
Toluene	50.0	50.5		ug/L		101	70 - 130
1,1,1-Trichloroethane	50.0	49.6		ug/L		99	70 - 130
1,1,2-Trichloroethane	50.0	54.8		ug/L		110	70 - 130
Trichloroethene	50.0	49.4		ug/L		99	70 - 130
Trichlorofluoromethane	50.0	47.5		ug/L		95	63 - 142
1,2,3-Trichloropropane	50.0	49.4		ug/L		99	70 - 130
Vinyl acetate	100	104		ug/L		104	67 - 135
Vinyl chloride	50.0	51.3		ug/L		103	66 - 129

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: LCS 680-704769/3

Matrix: Water

Analysis Batch: 704769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		60 - 124
Dibromofluoromethane (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 680-704769/4

Matrix: Water

Analysis Batch: 704769

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
Acetone	250	259		ug/L		103	67 - 120	2	30
Acrylonitrile	500	515		ug/L		103	70 - 130	0	30
Benzene	50.0	50.5		ug/L		101	70 - 130	2	30
Bromochloromethane	50.0	49.1		ug/L		98	70 - 130	0	30
Bromodichloromethane	50.0	46.7		ug/L		93	70 - 130	0	30
Bromoform	50.0	44.4		ug/L		89	69 - 129	5	30
Bromomethane	50.0	52.5		ug/L		105	28 - 192	10	30
2-Butanone (MEK)	250	232		ug/L		93	69 - 120	2	30
Carbon disulfide	50.0	47.2		ug/L		94	70 - 130	4	30
Carbon tetrachloride	50.0	48.9		ug/L		98	70 - 130	3	30
Chlorobenzene	50.0	50.0		ug/L		100	70 - 130	1	30
Chloroethane	50.0	52.1		ug/L		104	31 - 213	10	30
Chloroform	50.0	52.1		ug/L		104	70 - 130	3	30
Chloromethane	50.0	54.7		ug/L		109	59 - 127	2	30
Dibromochloromethane	50.0	48.3		ug/L		97	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	50.0	47.7		ug/L		95	70 - 130	3	30
1,2-Dibromoethane	50.0	51.3		ug/L		103	70 - 130	1	30
Dibromomethane	50.0	51.8		ug/L		104	70 - 130	1	30
1,2-Dichlorobenzene	50.0	52.7		ug/L		105	70 - 130	0	30
1,4-Dichlorobenzene	50.0	52.6		ug/L		105	70 - 130	1	30
trans-1,4-Dichloro-2-butene	50.0	51.6		ug/L		103	67 - 120	6	30
1,1-Dichloroethane	50.0	50.4		ug/L		101	70 - 130	2	30
1,2-Dichloroethane	50.0	49.3		ug/L		99	70 - 130	1	50
cis-1,2-Dichloroethene	50.0	52.2		ug/L		104	70 - 130	3	30
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	70 - 130	2	30
1,1-Dichloroethene	50.0	51.3		ug/L		103	70 - 130	5	20
1,2-Dichloropropane	50.0	52.2		ug/L		104	70 - 130	0	20
1,3-Dichloropropane	50.0	51.1		ug/L		102	70 - 130	2	20
cis-1,3-Dichloropropene	50.0	47.2		ug/L		94	70 - 130	1	20
trans-1,3-Dichloropropene	50.0	47.3		ug/L		95	70 - 130	1	30
Ethylbenzene	50.0	52.6		ug/L		105	70 - 130	3	20
2-Hexanone	250	277		ug/L		111	70 - 130	1	20
Iodomethane	50.0	52.3		ug/L		105	52 - 129	4	30
Methylene Chloride	50.0	49.3		ug/L		99	70 - 130	0	30
4-Methyl-2-pentanone (MIBK)	250	270		ug/L		108	68 - 120	1	30

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: LCSD 680-704769/4

Matrix: Water

Analysis Batch: 704769

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
Methyl tert-butyl ether	50.0	50.5		ug/L		101	70 - 130	2	30
Styrene	50.0	52.6		ug/L		105	70 - 130	2	30
1,1,1,2-Tetrachloroethane	50.0	48.6		ug/L		97	70 - 130	4	30
1,1,2,2-Tetrachloroethane	50.0	52.9		ug/L		106	70 - 130	1	30
Tetrachloroethylene	50.0	54.7		ug/L		109	70 - 130	5	30
Toluene	50.0	51.0		ug/L		102	70 - 130	1	30
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	70 - 130	3	30
1,1,2-Trichloroethane	50.0	54.2		ug/L		108	70 - 130	1	30
Trichloroethene	50.0	51.0		ug/L		102	70 - 130	3	30
Trichlorofluoromethane	50.0	51.6		ug/L		103	63 - 142	8	30
1,2,3-Trichloropropane	50.0	50.4		ug/L		101	70 - 130	2	30
Vinyl acetate	100	103		ug/L		103	67 - 135	0	30
Vinyl chloride	50.0	52.0		ug/L		104	66 - 129	1	30
Xylenes, Total	100	106		ug/L		106	70 - 130	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		60 - 124
Dibromofluoromethane (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 680-704969/8

Matrix: Water

Analysis Batch: 704969

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			01/31/22 12:53	1
Acrylonitrile	5.5	U	20	5.5	ug/L			01/31/22 12:53	1
Benzene	0.27	U	1.0	0.27	ug/L			01/31/22 12:53	1
Bromochloromethane	0.34	U	1.0	0.34	ug/L			01/31/22 12:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			01/31/22 12:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			01/31/22 12:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			01/31/22 12:53	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			01/31/22 12:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			01/31/22 12:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			01/31/22 12:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/31/22 12:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			01/31/22 12:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			01/31/22 12:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			01/31/22 12:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			01/31/22 12:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			01/31/22 12:53	1
1,2-Dibromoethane	0.33	U	1.0	0.33	ug/L			01/31/22 12:53	1
Dibromomethane	0.34	U	1.0	0.34	ug/L			01/31/22 12:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/31/22 12:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			01/31/22 12:53	1
trans-1,4-Dichloro-2-butene	1.3	U	2.0	1.3	ug/L			01/31/22 12:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			01/31/22 12:53	1

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: MB 680-704969/8

Matrix: Water

Analysis Batch: 704969

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			01/31/22 12:53	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			01/31/22 12:53	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			01/31/22 12:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			01/31/22 12:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			01/31/22 12:53	1
1,3-Dichloropropane	0.36	U	1.0	0.36	ug/L			01/31/22 12:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			01/31/22 12:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			01/31/22 12:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			01/31/22 12:53	1
2-Hexanone	3.2	U	10	3.2	ug/L			01/31/22 12:53	1
Iodomethane	3.9	U	10	3.9	ug/L			01/31/22 12:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			01/31/22 12:53	1
4-Methyl-2-pentanone (MIBK)	2.7	U	10	2.7	ug/L			01/31/22 12:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			01/31/22 12:53	1
Styrene	0.27	U	1.0	0.27	ug/L			01/31/22 12:53	1
1,1,1,2-Tetrachloroethane	0.36	U	1.0	0.36	ug/L			01/31/22 12:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			01/31/22 12:53	1
Tetrachloroethylene	0.35	U	0.50	0.35	ug/L			01/31/22 12:53	1
Toluene	0.25	U	1.0	0.25	ug/L			01/31/22 12:53	1
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			01/31/22 12:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			01/31/22 12:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			01/31/22 12:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			01/31/22 12:53	1
1,2,3-Trichloropropane	0.48	U	1.0	0.48	ug/L			01/31/22 12:53	1
Vinyl acetate	0.69	U	2.0	0.69	ug/L			01/31/22 12:53	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			01/31/22 12:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			01/31/22 12:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		01/31/22 12:53	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 124		01/31/22 12:53	1
Dibromofluoromethane (Surr)	100		70 - 130		01/31/22 12:53	1
4-Bromofluorobenzene (Surr)	109		70 - 130		01/31/22 12:53	1

Lab Sample ID: LCS 680-704969/3

Matrix: Water

Analysis Batch: 704969

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	228		ug/L		91	67 - 120
Acrylonitrile	500	501		ug/L		100	70 - 130
Benzene	50.0	51.5		ug/L		103	70 - 130
Bromochloromethane	50.0	52.0		ug/L		104	70 - 130
Bromodichloromethane	50.0	52.9		ug/L		106	70 - 130
Bromoform	50.0	45.4		ug/L		91	69 - 129
Bromomethane	50.0	62.7		ug/L		125	28 - 192
2-Butanone (MEK)	250	243		ug/L		97	69 - 120
Carbon disulfide	50.0	47.5		ug/L		95	70 - 130

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: LCS 680-704969/3

Matrix: Water

Analysis Batch: 704969

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	52.6		ug/L		105	70 - 130
Chlorobenzene	50.0	50.4		ug/L		101	70 - 130
Chloroethane	50.0	57.1		ug/L		114	31 - 213
Chloroform	50.0	50.7		ug/L		101	70 - 130
Chloromethane	50.0	43.7		ug/L		87	59 - 127
Dibromochloromethane	50.0	55.4		ug/L		111	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.7		ug/L		97	70 - 130
1,2-Dibromoethane	50.0	54.4		ug/L		109	70 - 130
Dibromomethane	50.0	52.7		ug/L		105	70 - 130
1,2-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
trans-1,4-Dichloro-2-butene	50.0	50.1		ug/L		100	67 - 120
1,1-Dichloroethane	50.0	50.6		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	52.8		ug/L		106	70 - 130
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	50.1		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	48.9		ug/L		98	70 - 130
1,2-Dichloropropane	50.0	51.7		ug/L		103	70 - 130
1,3-Dichloropropane	50.0	52.0		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50.0	52.9		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	53.1		ug/L		106	70 - 130
Ethylbenzene	50.0	50.6		ug/L		101	70 - 130
2-Hexanone	250	233		ug/L		93	70 - 130
Iodomethane	50.0	50.0		ug/L		100	52 - 129
Methylene Chloride	50.0	50.8		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	250	248		ug/L		99	68 - 120
Methyl tert-butyl ether	50.0	52.0		ug/L		104	70 - 130
Styrene	50.0	51.5		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	50.0	56.3		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	70 - 130
Tetrachloroethylene	50.0	53.1		ug/L		106	70 - 130
Toluene	50.0	51.8		ug/L		104	70 - 130
1,1,1-Trichloroethane	50.0	51.6		ug/L		103	70 - 130
1,1,2-Trichloroethane	50.0	54.1		ug/L		108	70 - 130
Trichloroethene	50.0	52.5		ug/L		105	70 - 130
Trichlorofluoromethane	50.0	47.0		ug/L		94	63 - 142
1,2,3-Trichloropropane	50.0	51.4		ug/L		103	70 - 130
Vinyl acetate	100	102		ug/L		102	67 - 135
Vinyl chloride	50.0	42.9		ug/L		86	66 - 129
Xylenes, Total	100	100		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		60 - 124
Dibromofluoromethane (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: LCSD 680-704969/4

Matrix: Water

Analysis Batch: 704969

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
Acetone	250	233		ug/L		93	67 - 120	2	30
Acrylonitrile	500	502		ug/L		100	70 - 130	0	30
Benzene	50.0	51.7		ug/L		103	70 - 130	0	30
Bromochloromethane	50.0	51.4		ug/L		103	70 - 130	1	30
Bromodichloromethane	50.0	52.9		ug/L		106	70 - 130	0	30
Bromoform	50.0	44.9		ug/L		90	69 - 129	1	30
Bromomethane	50.0	60.7		ug/L		121	28 - 192	3	30
2-Butanone (MEK)	250	249		ug/L		99	69 - 120	2	30
Carbon disulfide	50.0	47.8		ug/L		96	70 - 130	1	30
Carbon tetrachloride	50.0	53.4		ug/L		107	70 - 130	1	30
Chlorobenzene	50.0	50.1		ug/L		100	70 - 130	1	30
Chloroethane	50.0	55.6		ug/L		111	31 - 213	3	30
Chloroform	50.0	50.4		ug/L		101	70 - 130	1	30
Chloromethane	50.0	43.2		ug/L		86	59 - 127	1	30
Dibromochloromethane	50.0	55.0		ug/L		110	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	50.0	49.0		ug/L		98	70 - 130	0	30
1,2-Dibromoethane	50.0	54.9		ug/L		110	70 - 130	1	30
Dibromomethane	50.0	52.0		ug/L		104	70 - 130	1	30
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	70 - 130	2	30
1,4-Dichlorobenzene	50.0	50.5		ug/L		101	70 - 130	0	30
trans-1,4-Dichloro-2-butene	50.0	49.9		ug/L		100	67 - 120	0	30
1,1-Dichloroethane	50.0	50.4		ug/L		101	70 - 130	0	30
1,2-Dichloroethane	50.0	52.7		ug/L		105	70 - 130	0	50
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	70 - 130	1	30
1,1-Dichloroethene	50.0	49.3		ug/L		99	70 - 130	1	20
1,2-Dichloropropane	50.0	51.0		ug/L		102	70 - 130	1	20
1,3-Dichloropropane	50.0	52.1		ug/L		104	70 - 130	0	20
cis-1,3-Dichloropropene	50.0	52.9		ug/L		106	70 - 130	0	20
trans-1,3-Dichloropropene	50.0	53.6		ug/L		107	70 - 130	1	30
Ethylbenzene	50.0	50.2		ug/L		100	70 - 130	1	20
2-Hexanone	250	243		ug/L		97	70 - 130	4	20
Iodomethane	50.0	51.7		ug/L		103	52 - 129	3	30
Methylene Chloride	50.0	50.9		ug/L		102	70 - 130	0	30
4-Methyl-2-pentanone (MIBK)	250	256		ug/L		102	68 - 120	3	30
Methyl tert-butyl ether	50.0	51.9		ug/L		104	70 - 130	0	30
Styrene	50.0	50.8		ug/L		102	70 - 130	1	30
1,1,1,2-Tetrachloroethane	50.0	56.7		ug/L		113	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	70 - 130	0	30
Tetrachloroethylene	50.0	58.7		ug/L		117	70 - 130	10	30
Toluene	50.0	52.1		ug/L		104	70 - 130	1	30
1,1,1-Trichloroethane	50.0	51.2		ug/L		102	70 - 130	1	30
1,1,2-Trichloroethane	50.0	53.9		ug/L		108	70 - 130	0	30
Trichloroethene	50.0	53.8		ug/L		108	70 - 130	3	30
Trichlorofluoromethane	50.0	46.6		ug/L		93	63 - 142	1	30
1,2,3-Trichloropropane	50.0	51.4		ug/L		103	70 - 130	0	30
Vinyl acetate	100	98.2		ug/L		98	67 - 135	4	30
Vinyl chloride	50.0	42.2		ug/L		84	66 - 129	2	30

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: LCSD 680-704969/4

Matrix: Water

Analysis Batch: 704969

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
Xylenes, Total	100	101		ug/L		101	70 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		60 - 124
Dibromofluoromethane (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-705223/13

Matrix: Water

Analysis Batch: 705223

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.57	U	0.58	0.57	ug/L			02/01/22 16:11	1
Ethane	0.30	U	1.1	0.30	ug/L			02/01/22 16:11	1
Ethene	0.31	U	1.0	0.31	ug/L			02/01/22 16:11	1

Lab Sample ID: LCS 680-705223/11

Matrix: Water

Analysis Batch: 705223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	192	189		ug/L		98	75 - 125
Ethane	361	377		ug/L		105	75 - 125
Ethene	337	341		ug/L		101	75 - 125

Lab Sample ID: LCS 680-705223/9

Matrix: Water

Analysis Batch: 705223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	1920	1990		ug/L		103	75 - 125

Lab Sample ID: LCSD 680-705223/10

Matrix: Water

Analysis Batch: 705223

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
Methane (TCD)	1920	1900		ug/L		99	75 - 125	5	30

Lab Sample ID: LCSD 680-705223/12

Matrix: Water

Analysis Batch: 705223

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
Methane	192	175		ug/L		91	75 - 125	8	30
Ethane	361	338		ug/L		94	75 - 125	11	30
Ethene	337	310		ug/L		92	75 - 125	10	30

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-704399/2

Matrix: Water

Analysis Batch: 704399

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.023	U	0.050	0.023	mg/L			01/26/22 10:48	1
Nitrite as N	0.023	U	0.050	0.023	mg/L			01/26/22 10:48	1

Lab Sample ID: LCS 680-704399/3

Matrix: Water

Analysis Batch: 704399

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.00	0.974		mg/L		97	90 - 110
Nitrite as N	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: LCSD 680-704399/4

Matrix: Water

Analysis Batch: 704399

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
Nitrate as N	1.00	0.979		mg/L		98	90 - 110	0	15
Nitrite as N	1.00	1.02		mg/L		102	90 - 110	0	15

Lab Sample ID: 680-210495-7 MS

Matrix: Water

Analysis Batch: 704399

Client Sample ID: DUP389

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.042	J	1.00	1.06		mg/L		102	80 - 120
Nitrite as N	0.023	U	1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: 680-210495-7 MSD

Matrix: Water

Analysis Batch: 704399

Client Sample ID: DUP389

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.042	J	1.00	1.01		mg/L		97	80 - 120	5	15
Nitrite as N	0.023	U	1.00	1.01		mg/L		101	80 - 120	4	15

Lab Sample ID: MB 680-704785/2

Matrix: Water

Analysis Batch: 704785

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			01/28/22 10:37	1

Lab Sample ID: LCS 680-704785/3

Matrix: Water

Analysis Batch: 704785

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.94		mg/L		99	90 - 110

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: LCSD 680-704785/4

Matrix: Water

Analysis Batch: 704785

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	9.94		mg/L		99	90 - 110	0	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-704616/1-A

Matrix: Water

Analysis Batch: 705176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 704616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20	U	100	20	ug/L		01/27/22 10:41	01/31/22 17:25	1
Manganese	1.3	U	10	1.3	ug/L		01/27/22 10:41	01/31/22 17:25	1

Lab Sample ID: LCS 680-704616/2-A

Matrix: Water

Analysis Batch: 705176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 704616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5000	4730		ug/L		95	80 - 120
Manganese	400	388		ug/L		97	80 - 120

Lab Sample ID: MB 680-704657/1-B

Matrix: Water

Analysis Batch: 705176

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 704658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Iron	20	U	100	20	ug/L		01/27/22 14:00	01/31/22 19:34	1
Dissolved Manganese	1.3	U	10	1.3	ug/L		01/27/22 14:00	01/31/22 19:34	1

Lab Sample ID: LCS 680-704657/2-B

Matrix: Water

Analysis Batch: 705176

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 704658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Iron	5000	4610		ug/L		92	80 - 120
Dissolved Manganese	400	378		ug/L		94	80 - 120

Lab Sample ID: 680-210495-2 MS

Matrix: Water

Analysis Batch: 705176

Client Sample ID: FTA- 94-MW11

Prep Type: Dissolved

Prep Batch: 704658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Iron	67	J	5000	4820		ug/L		95	75 - 125
Dissolved Manganese	30		400	415		ug/L		96	75 - 125

Lab Sample ID: 680-210495-2 MSD

Matrix: Water

Analysis Batch: 705176

Client Sample ID: FTA- 94-MW11

Prep Type: Dissolved

Prep Batch: 704658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Iron	67	J	5000	4830		ug/L		95	75 - 125	0	20

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

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

Lab Sample ID: 680-210495-2 MSD

Matrix: Water

Analysis Batch: 705176

Client Sample ID: FTA- 94-MW11

Prep Type: Dissolved

Prep Batch: 704658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Manganese	30		400	413		ug/L		96	75 - 125	0	20

Method: 350.1-1993 R2.0 - Nitrogen, Ammonia

Lab Sample ID: MB 680-704743/13

Matrix: Water

Analysis Batch: 704743

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.25	0.10	mg/L			01/27/22 13:25	1

Lab Sample ID: MB 680-704743/37

Matrix: Water

Analysis Batch: 704743

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.25	0.10	mg/L			01/27/22 14:16	1

Lab Sample ID: LCS 680-704743/14

Matrix: Water

Analysis Batch: 704743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.913		mg/L		91	90 - 110

Lab Sample ID: LCS 680-704743/38

Matrix: Water

Analysis Batch: 704743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.915		mg/L		92	90 - 110

Lab Sample ID: 680-210495-2 MS

Matrix: Water

Analysis Batch: 704743

Client Sample ID: FTA- 94-MW11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.10	U	1.00	1.07		mg/L		107	90 - 110

Lab Sample ID: 680-210495-2 MSD

Matrix: Water

Analysis Batch: 704743

Client Sample ID: FTA- 94-MW11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.10	U	1.00	1.08		mg/L		108	90 - 110	1	30

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Method: 350.1-1993 R2.0 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 680-210495-7 MS

Matrix: Water

Analysis Batch: 704743

Client Sample ID: DUP389

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.10	U	1.00	1.04		mg/L		104	90 - 110

Lab Sample ID: 680-210495-7 MSD

Matrix: Water

Analysis Batch: 704743

Client Sample ID: DUP389

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.10	U	1.00	1.04		mg/L		104	90 - 110	1	30

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

GC/MS VOA

Analysis Batch: 704753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-210495-1	FTA- 94-MW03	Total/NA	Water	8260D	
680-210495-2	FTA- 94-MW11	Total/NA	Water	8260D	
680-210495-3	FTA- 94-MW12	Total/NA	Water	8260D	
680-210495-6	FTA- 94-MW16	Total/NA	Water	8260D	
680-210495-7	DUP389	Total/NA	Water	8260D	
680-210495-8	TB592	Total/NA	Water	8260D	
MB 680-704753/8	Method Blank	Total/NA	Water	8260D	
LCS 680-704753/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-704753/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 704769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-210495-4	FTA- 94-MW13	Total/NA	Water	8260D	
680-210495-5	FTA- 94-MW15	Total/NA	Water	8260D	
MB 680-704769/8	Method Blank	Total/NA	Water	8260D	
LCS 680-704769/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-704769/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 704969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-210495-4 - RA	FTA- 94-MW13	Total/NA	Water	8260D	
680-210495-5 - RA	FTA- 94-MW15	Total/NA	Water	8260D	
MB 680-704969/8	Method Blank	Total/NA	Water	8260D	
LCS 680-704969/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-704969/4	Lab Control Sample Dup	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 705223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-210495-2	FTA- 94-MW11	Total/NA	Water	RSK-175	
680-210495-7	DUP389	Total/NA	Water	RSK-175	
MB 680-705223/13	Method Blank	Total/NA	Water	RSK-175	
LCS 680-705223/11	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-705223/9	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-705223/10	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-705223/12	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 704399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-210495-2	FTA- 94-MW11	Total/NA	Water	9056A	
680-210495-7	DUP389	Total/NA	Water	9056A	
MB 680-704399/2	Method Blank	Total/NA	Water	9056A	
LCS 680-704399/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-704399/4	Lab Control Sample Dup	Total/NA	Water	9056A	
680-210495-7 MS	DUP389	Total/NA	Water	9056A	
680-210495-7 MSD	DUP389	Total/NA	Water	9056A	

Eurofins Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

HPLC/IC

Analysis Batch: 704785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-210495-2	FTA- 94-MW11	Total/NA	Water	9056A	
680-210495-7	DUP389	Total/NA	Water	9056A	
MB 680-704785/2	Method Blank	Total/NA	Water	9056A	
LCS 680-704785/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-704785/4	Lab Control Sample Dup	Total/NA	Water	9056A	

Metals

Prep Batch: 704616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-210495-2	FTA- 94-MW11	Total/NA	Water	3010A	
680-210495-7	DUP389	Total/NA	Water	3010A	
MB 680-704616/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-704616/2-A	Lab Control Sample	Total/NA	Water	3010A	

Filtration Batch: 704657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-210495-2	FTA- 94-MW11	Dissolved	Water	FILTRATION	
680-210495-7	DUP389	Dissolved	Water	FILTRATION	
MB 680-704657/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-704657/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
680-210495-2 MS	FTA- 94-MW11	Dissolved	Water	FILTRATION	
680-210495-2 MSD	FTA- 94-MW11	Dissolved	Water	FILTRATION	

Prep Batch: 704658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-210495-2	FTA- 94-MW11	Dissolved	Water	3005A	704657
680-210495-7	DUP389	Dissolved	Water	3005A	704657
MB 680-704657/1-B	Method Blank	Dissolved	Water	3005A	704657
LCS 680-704657/2-B	Lab Control Sample	Dissolved	Water	3005A	704657
680-210495-2 MS	FTA- 94-MW11	Dissolved	Water	3005A	704657
680-210495-2 MSD	FTA- 94-MW11	Dissolved	Water	3005A	704657

Analysis Batch: 705176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-210495-2	FTA- 94-MW11	Dissolved	Water	6010C	704658
680-210495-2	FTA- 94-MW11	Total/NA	Water	6010C	704616
680-210495-7	DUP389	Dissolved	Water	6010C	704658
680-210495-7	DUP389	Total/NA	Water	6010C	704616
MB 680-704616/1-A	Method Blank	Total/NA	Water	6010C	704616
MB 680-704657/1-B	Method Blank	Dissolved	Water	6010C	704658
LCS 680-704616/2-A	Lab Control Sample	Total/NA	Water	6010C	704616
LCS 680-704657/2-B	Lab Control Sample	Dissolved	Water	6010C	704658
680-210495-2 MS	FTA- 94-MW11	Dissolved	Water	6010C	704658
680-210495-2 MSD	FTA- 94-MW11	Dissolved	Water	6010C	704658

General Chemistry

Analysis Batch: 704743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-210495-2	FTA- 94-MW11	Total/NA	Water	350.1-1993 R2.0	
680-210495-7	DUP389	Total/NA	Water	350.1-1993 R2.0	

Eurofins Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

General Chemistry (Continued)

Analysis Batch: 704743 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-704743/13	Method Blank	Total/NA	Water	350.1-1993 R2.0	
MB 680-704743/37	Method Blank	Total/NA	Water	350.1-1993 R2.0	
LCS 680-704743/14	Lab Control Sample	Total/NA	Water	350.1-1993 R2.0	
LCS 680-704743/38	Lab Control Sample	Total/NA	Water	350.1-1993 R2.0	
680-210495-2 MS	FTA- 94-MW11	Total/NA	Water	350.1-1993 R2.0	
680-210495-2 MSD	FTA- 94-MW11	Total/NA	Water	350.1-1993 R2.0	
680-210495-7 MS	DUP389	Total/NA	Water	350.1-1993 R2.0	
680-210495-7 MSD	DUP389	Total/NA	Water	350.1-1993 R2.0	

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: FTA- 94-MW03

Lab Sample ID: 680-210495-1

Date Collected: 01/25/22 09:11

Matrix: Water

Date Received: 01/26/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	704753	01/28/22 17:23	SMP	TAL SAV
Instrument ID: CMSC										

Client Sample ID: FTA- 94-MW11

Lab Sample ID: 680-210495-2

Date Collected: 01/25/22 11:45

Matrix: Water

Date Received: 01/26/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	704753	01/28/22 17:42	SMP	TAL SAV
Instrument ID: CMSC										
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	705223	02/01/22 16:31	JCK	TAL SAV
Instrument ID: CVGU										
Total/NA	Analysis	9056A		1	5 mL	5 mL	704785	01/28/22 15:00	T1C	TAL SAV
Instrument ID: CICK										
Total/NA	Analysis	9056A		1	5 mL	5 mL	704399	01/26/22 15:38	AF	TAL SAV
Instrument ID: CICL										
Dissolved	Filtration	FILTRATION			50 mL	50 mL	704657	01/27/22 14:00	JE	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	704658	01/27/22 14:00	JE	TAL SAV
Dissolved	Analysis	6010C		1			705176	01/31/22 19:45	BCB	TAL SAV
Instrument ID: ICPH										
Total/NA	Prep	3010A			50 mL	50 mL	704616	01/27/22 10:41	JE	TAL SAV
Total/NA	Analysis	6010C		1			705176	01/31/22 18:01	BCB	TAL SAV
Instrument ID: ICPH										
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	704743	01/27/22 13:30	DR	TAL SAV
Instrument ID: KONELAB1										

Client Sample ID: FTA- 94-MW12

Lab Sample ID: 680-210495-3

Date Collected: 01/25/22 10:41

Matrix: Water

Date Received: 01/26/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	704753	01/28/22 18:01	SMP	TAL SAV
Instrument ID: CMSC										

Client Sample ID: FTA- 94-MW13

Lab Sample ID: 680-210495-4

Date Collected: 01/25/22 10:00

Matrix: Water

Date Received: 01/26/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	704969	01/31/22 14:33	SMP	TAL SAV
Instrument ID: CMSC										
Total/NA	Analysis	8260D		1	5 mL	5 mL	704769	01/28/22 16:25	P1C	TAL SAV
Instrument ID: CMSO2										

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Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Client Sample ID: FTA- 94-MW15

Lab Sample ID: 680-210495-5

Date Collected: 01/25/22 13:16

Matrix: Water

Date Received: 01/26/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	704969	01/31/22 14:52	SMP	TAL SAV
		Instrument ID: CMSC								
Total/NA	Analysis	8260D		1	5 mL	5 mL	704769	01/28/22 16:48	P1C	TAL SAV
		Instrument ID: CMSO2								

Client Sample ID: FTA- 94-MW16

Lab Sample ID: 680-210495-6

Date Collected: 01/25/22 12:11

Matrix: Water

Date Received: 01/26/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	704753	01/28/22 18:20	SMP	TAL SAV
		Instrument ID: CMSC								

Client Sample ID: DUP389

Lab Sample ID: 680-210495-7

Date Collected: 01/25/22 00:00

Matrix: Water

Date Received: 01/26/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	704753	01/28/22 18:39	SMP	TAL SAV
		Instrument ID: CMSC								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	705223	02/01/22 16:44	JCK	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	704785	01/28/22 15:13	T1C	TAL SAV
		Instrument ID: CICK								
Total/NA	Analysis	9056A		1	5 mL	5 mL	704399	01/26/22 14:53	AF	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			50 mL	50 mL	704657	01/27/22 14:00	JE	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	704658	01/27/22 14:00	JE	TAL SAV
Dissolved	Analysis	6010C		1			705176	01/31/22 20:11	BCB	TAL SAV
		Instrument ID: ICPH								
Total/NA	Prep	3010A			50 mL	50 mL	704616	01/27/22 10:41	JE	TAL SAV
Total/NA	Analysis	6010C		1			705176	01/31/22 18:06	BCB	TAL SAV
		Instrument ID: ICPH								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	704743	01/27/22 13:59	DR	TAL SAV
		Instrument ID: KONELAB1								

Client Sample ID: TB592

Lab Sample ID: 680-210495-8

Date Collected: 01/25/22 14:30

Matrix: Water

Date Received: 01/26/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	704753	01/28/22 16:07	SMP	TAL SAV
		Instrument ID: CMSC								

Laboratory References:

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-22

1

2

3

4

5

6

7

8

9

10

11

12

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 94(7), Chem Laundry/Motor Pool

Job ID: 680-210495-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
9056A	Anions, Ion Chromatography	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
350.1-1993 R2.0	Nitrogen, Ammonia	MCAWW	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3010A	Preparation, Total Metals	SW846	TAL SAV
5030C	Purge and Trap	SW846	TAL SAV
FILTRATION	Sample Filtration	None	TAL SAV

Protocol References:

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

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175,
Rev. 0, 8/11/94, USEPA Research Lab

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

Laboratory References:

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory Eurofins
 Lab Contact Noel Savoie, Beth Daughtry
 MES Contact Betty Van Pelt
 MES Phone 801-699-1246
 Project Parcel 94(7), Chem Laundry/Motor Pool
 Task # 21 094.22-02.1
 Lab contract: 21.094.22-02.1 .500

COC Number 6542
 Cooler ID 1 of 1
 Page 1 of 1

Lab Contact: Betty Van Pelt MES Phone: 801-699-1246 Project: Parcel 94(7), Chem Laundry/Motor Pool Task #: 21.094.22-02.1 Lab contract: 21.094.22-02.1.500										Date Collected		Sample Time		Analysis																
Samplers Signature 												StationID	QC Code	Station Code	Matrix	Sample Method	SW8260D - VOC	3-40 mL vials, HCL	RSK-175-M,E,F	3-40mL vials, HCL	SW6010B Metals, Fe, Mn - Total	1 - 250mL poly, HNO3	SW6010B Metals, Fe, Mn - Dissolved (lab filter)	1 - 250mL poly, None	4500-NH3F, 4500NorgC	1-250 mL poly, H2SO4	SW9056 Nitrate, Nitrite, Sulfate	1-125 mL poly, none	SW8260D - VOC	2-40 mL vials, HCL
												LTM - ChemLaundry	FTA-94-MW03	NS	MW	Water	BP	X	X											
												LTM - ChemLaundry	FTA-94-MW11	NS	MW	Water	BP	X	X											
												LTM - ChemLaundry	FTA-94-MW12	NS	MW	Water	BP	X	X											
												LTM - ChemLaundry	FTA-94-MW13	NS	MW	Water	BP	X	X											
												LTM - ChemLaundry	FTA-94-MW15	NS	MW	Water	BP	X	X											
												LTM - ChemLaundry	FTA-94-MW16	NS	MW	Water	BP	X	X											
												LTM - ChemLaundry	DUP389	FD	MW	Water	BP	X	X											
												LTM - ChemLaundry	TB592	TB	WQ	Water	G	X	X											X

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
 Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
 White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
 Double the number of bottles for MS/MSD

COMMENTS:

Relinquished by (Signature):

Date/Time: 1/25/22 16:00

Received by (Signature):

FedEx

Relinquished by (Signature):

Date/Time:

Received by (Signature):

OP

1126 10 45



680-210495 Chain of Custody

0.3cc
0.9cc

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-210495-1

Login Number: 210495

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D

Historical Analytical Data (1998-2010) for Detected VOCs in Groundwater Compared to MCLs

Appendix D: Historical Analytical Data (1998-2010) for Detected VOCs in Groundwater Compared to MCLs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston Alabama

VOCs (µg/L)	MCL	FTA-94-MW01 (Residuum)													
		11/16/98	12/1/00	4/4/02	3/23/04	2/8/05	12/15/05	6/19/06	12/11/06	6/18/07	12/11/07	6/24/08	12/8/08	12/22/09	12/14/10
1,1,1-Trichloroethane	200	< 1	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 10 (R)	< 20 (R)	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10	< 10	< 10
Acetone	-	< 10 (R)	< 20 (R)	NA	< 10	< 10	10 U^ (UB)	< 10	< 10	< 10 (UJC)	< 10	< 10 (UJC)	< 10	< 10	< 10
Benzene	5	< 1	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJC)	< 1	< 1	< 1	< 1	0.26 J
Chlorobenzene	100	3.4	16	< 1	< 1	< 1	< 1	0.21 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	< 1	< 5	0.22 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	6.9	21	2.8	1	< 1	0.25 J	< 1	0.29 J	< 1	< 1	< 1	< 1	0.21 J	< 1
Methylene Chloride	-	< 1 (UJ)	< 5	0.72 J	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 1	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	0.97 J (J)	4.6 J (J)	0.6 J	0.26 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	25	53	18	11	2.8	3.9	1.1	4	0.78 J	0.95 J	2.3	1.4	4.3	1.3
Vinyl Chloride	2	0.92 J (J)	14	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	MCL	FTA-94-MW02 (Residuum)											
		11/29/00	4/6/04	2/9/05	12/14/05	6/20/06	12/11/06	6/19/07	12/11/07	6/23/08	12/8/08	12/15/09	12/16/10
1,1,1-Trichloroethane	200	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 20 (R)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	-	< 20 (R)	2.6 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10	< 10	< 10
Benzene	5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	-	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

Appendix D: Historical Analytical Data (1998-2010) for Detected VOCs in Groundwater Compared to MCLs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston Alabama

VOCs (µg/L)	MCL	FTA-94-MW03 (Residuum)												
		11/29/00	4/2/02	3/24/04	2/11/05	12/13/05	6/20/06	12/11/06	6/18/07	12/10/07	6/25/08	12/9/08	12/22/09	12/15/10
1,1,1-Trichloroethane	200	< 5	NA	0.53 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 20 (R)	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	-	< 20 (R)	NA	< 10	< 10	3.4 J	< 10	< 10	< 10 (UJC)	< 10	< 10	< 10 (UJC)	< 10	< 10
Benzene	5	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 5	0.45 J	< 1	< 1	< 1	< 1	< 1	< 1 (UJC)	< 1	< 1 (UJC)	< 1.0	< 1	< 1
Chlorobenzene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	< 5	0.22 J	< 1	< 1	< 1	< 1	< 1	0.22 J	< 1	0.28 J	< 1	0.31 J	0.26 J
Methylene Chloride	-	< 5	0.23 J	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	2.5 J (J)	1.5	1	0.76 J	0.8 J	1.2	0.73 J	1.1	1.3	1.1	0.9 J	1.1	1.1
Vinyl Chloride	2	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	MCL	FTA-94-MW04 (Residuum)											
		12/4/00	3/22/04	2/11/05	12/14/05	6/21/06	12/12/06	6/19/07	12/10/07	6/25/08	12/9/08	12/14/09	12/15/10
1,1,1-Trichloroethane	200	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 20 (R)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	-	< 20 (R)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10	< 10
Benzene	5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 5	< 1	< 1	< 1	0.36 J	< 1	0.35 J	< 1	0.48 J (JC)	< 1	< 1	< 1
Chlorobenzene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	< 5	< 1	< 1	< 1	< 1	< 1	0.21 J	0.51 J	< 1	< 1	< 1	< 1
Methylene Chloride	-	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1 U ^A (UB)
trans-1,2-Dichloroethene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	< 5	< 1	< 1	0.24 J	< 1	< 1	0.35 J	4.1	0.24 J	< 1	< 1	0.33 J
Vinyl Chloride	2	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

Appendix D: Historical Analytical Data (1998-2010) for Detected VOCs in Groundwater Compared to MCLs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
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VOCs (µg/L)	MCL	FTA-94-MW05 (Residuum)											
		11/30/00	3/22/04	2/10/05	12/19/05	6/20/06	12/12/06	6/18/07	12/10/07	6/25/08	12/9/08	12/22/09	12/15/10
1,1,1-Trichloroethane	200	< 5	0.61 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 20 (R)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	-	< 20 (R)	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10	< 10	< 10 (UJC)	< 10	< 10
Benzene	5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1 (UJC)	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	< 5	< 1	0.21 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	-	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	< 5	3.1	2.3	1.3	2.5	1.2	2.2	2.1	2.5	0.73 J	0.77 J	0.46 J
Vinyl Chloride	2	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	MCL	FTA-94-MW06 (Bedrock)												
		5/30/01	3/27/02	3/25/04	2/11/05	12/14/05	6/21/06	12/12/06	6/19/07	12/10/07	6/24/08	12/9/08	12/14/09	12/15/10
1,1,1-Trichloroethane	200	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 5	0.54 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 20	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10	< 10	< 10
Acetone	-	< 20	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10 (UJC)	< 10	< 10
Benzene	5	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	-	1.9 J (J)	0.31 J	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	< 5	0.52 J	0.4 J	< 1	0.34 J	0.2 J	< 1	< 1	< 1	0.37 J	< 1	< 1	< 1
Vinyl Chloride	2	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

Appendix D: Historical Analytical Data (1998-2010) for Detected VOCs in Groundwater Compared to MCLs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
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VOCs (µg/L)	MCL	FTA-94-MW07 (Residuum)												
		12/4/00	4/9/02	3/30/04	2/10/05	12/14/05	6/21/06	12/12/06	6/20/07	12/11/07	6/24/08	12/9/08	12/14/09	12/15/10
1,1,1-Trichloroethane	200	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	Dry
1,1,2,2-Tetrachloroethane	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	Dry
2-Butanone (MEK)	-	< 20 (R)	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	Dry	< 10	Dry
Acetone	-	< 20 (R)	NA	< 10	< 10	< 10	< 10	< 10	17 (JC)	6.4 J	< 10 (UJC)	Dry	< 10	Dry
Benzene	5	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	Dry
Carbon Disulfide	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJC)	< 1	0.28 J	Dry	< 1	Dry
Chlorobenzene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	Dry
Chloroform	80	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	Dry
cis-1,2-Dichloroethene	70	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	Dry
Methylene Chloride	-	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	Dry	< 2	Dry
Toluene	1000	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	Dry
trans-1,2-Dichloroethene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	Dry
Trichloroethene	5	1.5 J (J)	0.87 J	< 1	0.46 J	0.86 J	< 1	0.4 J	< 1	0.47 J	< 1	Dry	0.23 J	Dry
Vinyl Chloride	2	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.8	Dry	< 0.8	Dry

VOCs (µg/L)	MCL	FTA-94-MW09 (Residuum)											
		12/4/00	4/9/02	3/22/04	2/9/05	12/15/05	6/20/2006	12/12/06	12/11/07	6/23/08	12/8/08	12/22/09	12/16/10
1,1,1-Trichloroethane	200	< 5	NA	0.22 J	< 1	< 1	< 1	< 1	Dry	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 20 (R)	NA	< 10	< 10	< 10	< 10	< 10	Dry	< 10	< 10	< 10	< 10
Acetone	-	< 20 (R)	NA	< 10	< 10	< 10	< 10	< 10	Dry	< 10 (UJC)	< 10 (UJC)	< 10	< 10
Benzene	5	< 5	NA	< 1	< 1	< 1	< 1	< 1	Dry	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	< 1	< 1	< 1
Chlorobenzene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	< 1	< 1	< 1
Chloroform	80	< 5	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	< 5	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	< 1	< 1	< 1
Methylene Chloride	-	< 5	0.37 J	< 2	< 2	< 2	< 2	< 2	Dry	< 2	< 2	< 2	< 2
Toluene	1000	< 5	NA	< 1	< 1	< 1	< 1	< 1	Dry	< 1	0.32 J	< 1	1 U ^A (UB)
trans-1,2-Dichloroethene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	< 1	< 1	< 1
Trichloroethene	5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 1	< 1	< 1	< 1
Vinyl Chloride	2	< 5	< 1	< 1	< 1	< 1	< 1	< 1	Dry	< 0.8	< 0.8	< 0.8	< 0.8

Appendix D: Historical Analytical Data (1998-2010) for Detected VOCs in Groundwater Compared to MCLs
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VOCs (µg/L)	FTA-94-MW10 (Residuum)												
	MCL	11/30/00	4/8/02	2/14/05	12/14/05	6/20/06	12/12/06	6/19/07	12/11/07	6/23/08	12/8/08	12/22/09	12/16/10
1,1,1-Trichloroethane	200	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 20 (R)	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	-	< 20 (R)	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10	< 10	< 10
Benzene	5	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	-	< 5	0.3 J	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 5	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	FTA-94-MW11 (Bedrock)												
	MCL	12/18/00	3/23/04	2/8/05	12/15/05	6/19/06	12/11/06	6/18/07	12/13/07	6/24/08	12/8/08	12/22/09	12/14/10
1,1,1-Trichloroethane	200	< 5	0.39 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.24 J
2-Butanone (MEK)	-	< 20 (R)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10	< 10	< 10
Acetone	-	< 20 (R)	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10	6.4 J (JC)	< 10	< 10	< 10
Benzene	5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 5	< 1	0.33 J	< 1	< 1	< 1	< 1 (UJC)	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	100	300	10	4.1	25	31	11	< 1	16	< 1	2.4	< 1	12
Chloroform	80	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	37	13	6.2	12	19	9	< 1	5.4	< 1	6.9	< 1	4.4
Methylene Chloride	-	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 5	< 1	0.21 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	8.3	2	0.76 J	1	1.6	1.1	< 1	1.2	< 1	0.61 J	< 1	0.62 J
Trichloroethene	5	75	34	16	18	41	16	1.1	6	1.2	5.2	0.98 J	3.4
Vinyl Chloride	2	25	1.4	0.52 J	2.4	8.3	9.7	< 1	13	< 0.8	2	< 0.8	16

Appendix D: Historical Analytical Data (1998-2010) for Detected VOCs in Groundwater Compared to MCLs
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VOCs (µg/L)	MCL	FTA-94-MW12 (Deep Bedrock)											
		5/24/01	3/25/04	2/14/05	12/13/05	6/20/06	12/11/06	6/18/07	12/12/07	6/25/08	12/9/08	12/22/09	12/15/10
1,1,1-Trichloroethane	200	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	-	14 J (J)	4.6 J	< 10	6.8 J	< 10	< 10	< 10 (UJC)	< 10	< 10	< 10 (UJC)	< 10	< 10
Benzene	5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 5	< 1	< 1	< 1	0.7 J	< 1	< 1 (UJC)	< 1	0.35 J (JC)	< 1	< 1	0.38 J
Chlorobenzene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	-	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 5	< 1	< 1	0.71 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	< 5	< 1	< 1	0.74 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	< 5	< 1	< 1	< 1	< 1	0.28 J	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	MCL	FTA-94-MW13 (Deep Bedrock)												
		7/18/01	10/15/01	4/3/02	3/23/04	2/8/05	6/19/06	12/13/06	6/18/07	12/12/07	6/24/08	12/8/08	12/15/09	12/14/10
1,1,1-Trichloroethane	200	< 1	< 1 (nv)	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 1	< 1 (nv)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 10 (R)	0.86 J (nv)	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10	< 10	< 10
Acetone	-	< 10 (R)	3 JB (nv)	NA	< 10	< 10	7.8 J	< 10	< 10 (UJC)	< 10	6.9 J (JC)	< 10 (UJC)	< 10	< 10
Benzene	5	< 1	< 1 (nv)	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 1 (UJ)	< 1 (nv)	0.32 J	< 1	< 1	0.26 J	0.38 J	2 (JC)	< 1	< 1	< 1	< 1	0.26 J
Chlorobenzene	100	< 1	< 1 (nv)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	< 1	< 1 (nv)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	0.6 J (J)	0.46 J (nv)	0.62 J	0.72 J	0.22 J	0.83 J	< 1	< 1	1.3	1	0.93 J	0.88 J	0.53 J
Methylene Chloride	-	< 2	< 2 (nv)	0.31 J	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 1	< 1 (nv)	NA	< 1	0.43 J	< 1	< 1	< 1	< 1	< 1	0.31 J	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	< 1	< 1 (nv)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	7	4.8 (nv)	5.5	10	2	1 J	0.34 J	0.26 J	< 1	0.28 J	0.29 J	0.35 J	0.24 J
Vinyl Chloride	2	< 1	< 2 (nv)	< 1	< 1	< 1	< 1	< 1	< 1	0.37 J	< 0.8	< 0.8	0.25 J	< 0.8

Appendix D: Historical Analytical Data (1998-2010) for Detected VOCs in Groundwater Compared to MCLs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston Alabama

VOCs (µg/L)	MCL	FTA-94-MW14 (Bedrock)												
		7/24/01	4/5/02	3/30/04	2/9/05	12/19/05	6/20/06	12/13/06	6/18/07	12/12/07	6/23/08	12/8/08	12/22/09	12/16/10
1,1,1-Trichloroethane	200	< 1	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 10 (R)	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	-	< 10 (R)	NA	9 J	< 10	< 10	< 10	< 10	5 J (JC)	< 10	8.1 J (JC)	< 10	< 10	< 10
Benzene	5	1.7	NA	3.9	0.2 J	2.2	4.7	2.9	3.3	3.1	3.7	3	2.2	2.3
Carbon Disulfide	-	< 1	< 1	< 1	< 1	< 1	5.2	11	13 (JC)	11	16	11	5.9	5.3
Chlorobenzene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 1	NA	< 1	0.73 J	0.51 J	0.34 J	< 1	< 1	< 1	0.44 J	0.26 J	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	0.92 J (J)	0.92 J	0.64 J	2.6	1.1	0.42 J	0.28 J	0.26 J	< 1	< 1	< 1	0.28 J	0.21 J
Vinyl Chloride	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.36 J	< 0.8	0.22 J	0.2 J	< 0.8

VOCs (µg/L)	MCL	FTA-94-MW15 (Deep Bedrock)												
		7/20/01	4/2/02	3/23/04	2/10/05	12/19/05	6/21/06	12/13/06	6/20/07	12/12/07	6/25/08	12/9/08	12/14/09	12/14/10
1,1,1-Trichloroethane	200	< 1	NA	0.35 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 10 (R)	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	-	< 10 (R)	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10	< 10
Benzene	5	< 1	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJC)	< 1	< 1	< 1
Chlorobenzene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	0.28 J (J)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	-	< 2	0.86 J	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 1	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

Appendix D: Historical Analytical Data (1998-2010) for Detected VOCs in Groundwater Compared to MCLs
Former Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)
McClellan, Anniston Alabama

VOCs (µg/L)	MCL	FTA-94-MW16 (Bedrock)											
		7/19/01	3/25/04	2/10/05	12/20/05	6/21/06	12/13/06	6/20/07	12/12/07	6/25/08	12/9/08	12/14/09	12/14/10
1,1,1-Trichloroethane	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	-	< 10 (R)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	-	< 10 (R)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJC)	< 10	< 10
Benzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Disulfide	-	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJC)	< 1	< 1	< 1
Chlorobenzene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene	1000	< 1	< 1	0.35 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1 U^ (UB)
trans-1,2-Dichloroethene	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.27 J
Vinyl Chloride	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 0.8

Notes:

- Indicates no established MCL
< = Indicates the analyte was not detected at the reported quantitation limit shown.
µg/L = micrograms per liter
VOCs = Volatile Organic Compounds

Lab Flag:

J = Estimated detection. Concentration is between the method detection limit and the practical quantitation limit.
U = Analyte is not detected above the RL.
^ = Lab flag updated by MES data reviewer.

Validation Qualifiers (delineated with parenthesis):

(nv) = Not validated
(J) = The analyte was positively identified; the reported value is the estimated concentration of the constituent detected in the sample.
UJ = Analyte was analyzed for, but was not detected. The reported quantitation limit is estimated.
U = Result was qualified as not detected above the level of the reporting limit or reported sample quantitation limit.

Validation Sub-qualifier:

B = Result was qualified based on method blank or trip blank contamination.
C = Continuing calibration was outside method-specific control limits.

Samples collected from 2000 through 2002 by IT Corporation (IT), data from IT's *Remedial Investigation* (IT, 2002).
Samples collected from 2004 through 2010 by Matrix Environmental Services, LLC (MES).
Because residuum well FTA-94-MW08 has been dry since the December 2005 sampling event, and was sampled during only two sampling rounds in February 2001 and February 2005, this well was not included in this table. Groundwater from well FTA-94-MW08 was non-detect for VOCs in February 2001 and February 2005 (MES, 2012).

Result > MCL