

Appendices

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

McClellan

Project Number

19-05.2

GROUNDWATER LEVELS

Field Personnel

Tulley/Meadows

Measuring Equipment

Solinst Water Level Meter

Date

11/07/18 - 11/14/18

Conditions

Well ID	Casing Diameter	Date	Time	Depth to Water (feet)	Well Depth (feet)	Water Column (feet)	Initials
LF4-MW01	4 inch	11/8/2018	8:59	21.19	40	18.81	JT
LF4-MW02	4 inch	11/8/2018	9:10	25.25	40.25	15	JT
LF4-MW03	4 inch	11/8/2018	9:15	18.21	34.2	15.99	JT
LF4-MW04	4 inch	11/8/2018	9:17	11.44	26.8	15.36	JT
LF4-MW05	4 inch	11/8/2018	7:52	15.55	34.6	19.05	JT
OLF-G04	4 inch	11/8/2018	9:28	48.12	60.5	12.38	JT
OLF-G05	4 inch	11/7/2018	14:00	40.27	60.4	20.13	JT
OLF-G06	4 inch	11/7/2018	11:07	72.45	72.58	Dry well	JT
OLF-G07	4 inch	11/7/2018	13:20	48.04	62.5	14.46	JT
OLF-G08	4 inch	11/7/2018	13:45	37.09	45	7.91	JT
OLF-G09	4 inch	11/8/2018	9:22	32.21	32	-0.21	JT
OLF-G10	4 inch	11/8/2018	7:35	26.48	28	1.52	JT
OLF-G12	4 inch	11/7/2018	9:45	70.34	87	16.66	JT
OLF-G15	4 inch	11/8/2018	9:40	22.28	28	5.72	JT
OLF-G16	4 inch	11/8/2018	9:44	DRY	37.45	Dry well	JT
OLF-G17	4 inch	11/7/2018	14:30	28.34	42	13.66	JT
OLF-G18	4 inch	11/7/2018	10:00	45.75	58.3	12.55	JT
OLF-G19	4 inch	11/7/2018	9:55	53.32	68	14.68	JT
OLF-G20	4 inch	11/7/2018	13:30	61.34	175	113.66	JT
OLF-G21	4 inch	11/7/2018	10:07	60.24	175	114.76	JT
OLF-G22	4 inch	11/7/2018	9:48	71.56	175	103.44	JT
OLF-G23	4 inch	11/7/2018	9:55	69.00	175	106	JT
OLF-G24	4 inch	11/7/2018	9:50	69.19	95	25.81	JT
OLF-G25	4 inch	11/7/2018	10:08	60.68	175.5	114.82	JT
OLF-G26	4 inch	11/7/2018	10:04	69.43	100	30.57	JT



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GROUNDWATER LEVELS

Well ID	Casing Diameter	Date	Time	Depth to Water (feet)	Well Depth (feet)	Water Column (feet)	Initials
OLF-G29	4 inch	11/7/2018	10:43	96.19	222.5	126.31	JT
OLF-G30	4 inch	11/7/2018	10:47	97.12	297.2	200.08	JT
OLF-G31	4 inch	11/7/2018	10:58	116.32	225	108.68	JT
OLF-G32	4 inch	11/7/2018	10:51	119.95	182	62.05	JT
OLF-G33	4 inch	11/7/2018	9:40	68.97	182	113.03	JT
OLF-G34	4 inch	11/7/2018	9:34	64.56	261	196.44	JT
OLF-G35	4 inch	11/7/2018	9:44	69.04	260	190.96	JT
OLF-G36	4 inch	11/7/2018	9:50	71.38	258.8	187.42	JT
OLF-G37	4 inch	11/8/2018	10:15	89.72	204	114.28	JT
OLF-G38	4 inch	11/8/2018	9:37	66.33	246	179.67	JT
OLF-G40	2 inch	11/8/2018	9:05	22.51	125	102.49	JT
OLF-G41	2 inch	11/8/2018	7:43	27.21	85.7	58.49	JT
OLF-G42	2 inch	11/8/2018	9:25	73.90	174.5	100.6	JT
OLF-G43	2 inch	11/7/2018	10:35	94.51	220.6	126.09	JT
OLF-G44	2 inch	11/7/2018	10:40	97.24	295.1	197.86	JT
OLF-G45	2 inch	11/8/2018	8:20	42.21	182	139.79	JT
OLF-G46	2 inch	11/8/2018	8:15	44.92	250	205.08	JT
OLF-G47	2 inch	11/7/2018	9:30	60.71	322	261.29	JT
OLF-G48	2 inch	11/7/2018	9:32	50.77	405	354.23	JT
OLF-G49	2 inch	11/7/2018	10:24	83.02	110	26.98	JT
OLF-G50	2 inch	11/7/2018	10:20	83.64	159	75.36	JT
OLF-G51	2 inch	11/7/2018	10:00	*	259	N/A	JT
OLF-G52	2 inch	11/7/2018	9:28	68.09	377.5	309.41	JT
OLF-G53	2 inch	11/8/2018	8:15	44.54	88.5	43.96	JT
OLF-G54	2 inch	11/7/2018	13:10	20.59	37.22	16.63	JT
OLF-G55	2 inch	11/7/2018	13:00	27.87	80.4	52.53	JT
OLF-G56	2 inch	11/7/2018	14:09	29.12	40.5	11.38	JT

*Unable to get water level due to obstruction.



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GROUNDWATER LEVELS

Well ID	Casing Diameter	Date	Time	Depth to Water (feet)	Well Depth (feet)	Water Column (feet)	Initials
OLF-G57	2 inch	11/7/2018	14:16	29.39	65.4	36.01	JT
OLF-G58	2 inch	11/7/2018	14:00	18.54	29	10.46	JT
OLF-G66	4 inch	11/7/2018	13:30	25.71	105	79.29	JT
OLF-G67	4 inch	11/7/2018	13:20	25.53	149	123.47	JT
OLF-G68	4 inch	11/7/2018	13:50	36.98	133	96.02	JT
OLF-G69	4 inch	11/7/2018	13:40	31.03	177.5	146.47	JT
OLF-G70	4 inch	11/7/2018	9:20	62.57	400	337.43	JT
OLF-G71 Port 1	FLUTe	11/14/2018	8:30	45.08	245	199.92	JT
OLF-G71 Port 2	FLUTe	11/14/2018	8:35	61.54	245	183.46	JT
OLF-G71 Port 3	FLUTe	11/14/2018	8:40	61.69	245	183.31	JT
OLF-G71 Port 4	FLUTe	11/14/2018	8:45	66.78	245	178.22	JT
OLF-G71 Port 5	FLUTe	11/14/2018	8:50	66.96	245	178.04	JT
OLF-G72 Port 1	FLUTe	11/13/2018	13:00	70.14	245	174.86	JT
OLF-G72 Port 2	FLUTe	11/13/2018	13:05	47.69	245	197.31	JT
OLF-G72 Port 3	FLUTe	11/13/2018	13:10	71.72	245	173.28	JT
OLF-G72 Port 4	FLUTe	11/13/2018	13:15	69.19	245	175.81	JT
OLF-G72 Port 5	FLUTe	11/13/2018	13:20	71.92	245	173.08	JT
OLF-G72 Port 6	FLUTe	11/13/2018	13:25	70.59	245	174.41	JT
OLF-G73 Port 1	FLUTe	11/13/2018	8:15	72.50	270	197.5	JT
OLF-G73 Port 2	FLUTe	11/13/2018	8:20	73.86	270	196.14	JT
OLF-G73 Port 3	FLUTe	11/13/2018	8:25	73.90	270	196.1	JT
OLF-G73 Port 4	FLUTe	11/13/2018	8:30	73.92	270	196.08	JT
OLF-G73 Port 5	FLUTe	11/13/2018	8:35	73.93	270	196.07	JT
OLF-G74 Port 1	FLUTe	11/12/2018	9:50	*	265	N/A	JT
OLF-G74 Port 2	FLUTe	11/12/2018	9:55	75.84	265	189.16	JT
OLF-G74 Port 3	FLUTe	11/12/2018	10:00	*	265	N/A	JT
OLF-G74 Port 4	FLUTe	11/12/2018	10:05	*	265	N/A	JT
OLF-G74 Port 5	FLUTe	11/12/2018	10:10	*	265	N/A	JT

* Unable to get water level meter in port.



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

Station Name/Sample ID

OLF-G07

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 48.2 feet	Sample Method Low Flow	Sampler s. meadows	Date 11/13/2018
Well Depth (TOC) 62.5 feet		Location (Site) LF3	Begin Time 12:10
Water Column Thickness 14.3 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 57
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 9.30 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions overcast	Meters YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	Serial numbers
741.36 feet		Calibration Field 11/13/2018	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 693.16 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1230	0	15.42	57	6.17	170.0	0.037	23.44	5.33	Clear	Clear	None
1235	500	14.90	52	5.37	171.9	0.034	12.18	5.24	Clear	Clear	None
1240	500	14.79	52	5.17	173.1	0.034	7.61	5.21	Clear	Clear	None
1245	500	14.67	52	5.17	173.4	0.034	5.17	5.20	Clear	Clear	None
1250	500	14.39	52	4.70	173.6	0.034	6.89	5.20	Clear	Clear	None
1255	500	14.38	52	4.68	173.1	0.034	6.13	5.20	Clear	Clear	None
1300	500	14.36	53	4.57	172.4	0.034	5.82	5.21	Clear	Clear	None
1301	Collect Sample Suite										
Total Time (min.) 30	Total Volume Removed 3000		Well pumped dry (yes/no) No			Notes					
QA/QC Samples MS/MSD									Signature 		



Matrix Environmental Services
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OLF-G08

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
37.2 feet	Low Flow	s. meadows	11/14/2018
Well Depth (TOC)	Equipment	Location (Site)	Begin Time
45 feet	Geotech Bladder Pump	LF3	09:20
Water Column Thickness		Laboratory	Sample Depth
7.8 feet		TestAmerica	40
		Sample Suite	
		See COCs	
Casing Diameter	Temperature (°F)	Meters	Serial numbers
4 inches	50	YSI 556 MPS	
Casing Volume	Weather Conditions	Solinst Water Level Meter	
5.07 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	overcast	Geotech Geocontrol PRO	
		Calibration	Ferrous Iron (Fe II) (mg/L)
739.3 feet		Field	
		11/14/2018	N/A
Groundwater Elevation	Parameter Stabilization	Product Observed (yes/no)	Depth to product
702.1 feet	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
0940	0	13.05	144	8.47	148.3	0.093	30.82	5.66	Clear	Clear	None
0945	250	12.29	144	7.99	152.1	0.093	27.33	5.67	Clear	Clear	None
0950	250	11.89	143	7.80	150.6	0.093	23.80	5.69	Clear	Clear	None
0955	250	11.64	142	7.77	148.9	0.093	24.18	5.69	Clear	Clear	None
1000	250	11.51	142	7.43	146.9	0.092	22.98	5.69	Clear	Clear	None
1005	250	11.21	140	7.56	145.0	0.091	21.45	5.69	Clear	Clear	None
1010	250	11.05	139	7.42	142.7	0.09	16.11	5.70	Clear	Clear	None
1015	250	11.03	138	7.38	140.7	0.09	14.72	5.71	Clear	Clear	None
1020	250	11.05	138	7.29	139.9	0.09	14.14	5.71	Clear	Clear	None
1025	250	11.06	138	7.27	139.3	0.09	13.86	5.71	Clear	Clear	None
1026	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
45	2250		No								
QA/QC Samples N/A									Signature 		



Matrix Environmental Services
283 Rucker Street
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Station Name/Sample ID

OLF-G12

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 69.67 feet	Sample Method Low Flow	Sampler Tulley	Date 11/19/2018
Well Depth (TOC) 87 feet		Location (Site) LF3	Begin Time 11:00
Water Column Thickness 17.33 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 80
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 11.26 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Temperature (°F) 64	Meters YSI Pro Plus	Serial numbers
745.43 feet		Solinst Water Level Meter	
Groundwater Elevation 675.76 feet	Weather Conditions Sunny	Geotech Geocontrol PRO	
		Calibration Field	Ferrous Iron (Fe II) (mg/L) N/A
	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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
11:35	0	21.10	91.6	6.25	186.2	0.0598	17.38	5.44	Clear	Clear	None
11:40	500	21.20	92.6	6.28	193.0	0.0605	13.41	5.45	Clear	Clear	None
11:45	500	21.30	94.2	5.53	201.1	0.0611	11.84	5.43	Clear	Clear	None
11:50	500	21.50	94.8	5.52	206.6	0.0618	9.12	5.42	Clear	Clear	None
11:55	500	21.80	95.6	5.70	208.5	0.0624	8.78	5.45	Clear	Clear	None
12:00	500	21.60	95.4	5.67	210.5	0.0618	9.09	5.44	Clear	Clear	None
12:05	500	22.00	95.5	5.49	210.5	0.0618	8.13	5.42	Clear	Clear	None
12:10	500	22.00	95.4	5.51	210.6	0.0618	8.99	5.44	Clear	Clear	None
12:11	Collected Sample Suite										
Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)		Notes							
35	3500	No									

QA/QC Samples

Dup 304

Signature



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

Station Name/Sample ID

OLF-G18

Project

McClellan

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18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	46.24	feet	Sample Method Low Flow	Sampler Tulley	Date 11/19/2018	
Well Depth (TOC)	58	feet			Location (Site) LF3	
Water Column Thickness	11.76	feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Begin Time 8:30	
Casing Diameter	4	inches			Sample Depth 52	
Casing Volume	7.64	gallons	Weather Conditions Sunny	Meters YSI Pro Plus Solinst Water Level Meter Geotech Geocontrol PRO	Sample Suite See COCs	
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4					Calibration Field	
741.6	feet				11/19/2018	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation	695.36	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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
9:30	0	20.70	103.5	3.05	-25.3	0.067	49.48	6.59	Cloudy	Clear	None
9:35	500	20.90	100.9	2.63	-22.6	0.065	44.01	6.59	Cloudy	Clear	None
9:40	500	21.50	94.2	2.40	-13.6	0.0611	31.57	6.63	Clear	Clear	None
9:45	500	21.70	90.5	2.19	-0.8	0.0585	30.51	6.63	Clear	Clear	None
9:50	500	21.90	89.3	2.10	0.0	0.0559	32.09	6.64	Clear	Clear	None
9:55	500	22.10	86.3	2.10	14.4	0.0559	31.85	6.64	Clear	Clear	None
10:00	500	22.10	86.2	2.09	16.8	0.0559	29.01	6.65	Clear	Clear	None
10:05	500	21.80	86	2.07	17.5	0.0559	29.05	6.65	Clear	Clear	None
1010	500	22.20	85.7	1.97	21.5	0.0559	28.59	6.64	Clear	Clear	None
1015	500	22.40	85.7	2.12	23.8	0.0559	29.86	6.64	Clear	Clear	None
10:16	Collected Sample Suite										
	9 g 11/19/14										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
45	4500		No			small flakes in sample					

QA/QC Samples

N/A

Signature



Matrix Environmental Services
283 Rucker Street
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OLF-G21

Project

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 60.24 feet	Sample Method Low Flow	Sampler s. meadows	Date 11/19/2018
Well Depth (TOC) 175 feet		Location (Site) LF3	Begin Time 12:50
Water Column Thickness 114.76 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 162
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 74.59 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI 556 mps	Serial numbers Solinst Water Level Meter Geotech Geocontrol PRO
742.57 feet		Calibration Field 11/19/2018	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 682.33 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1300	0	19.83	492	1.83	-138.7	0.32	7.11	7.50	Clear	Clear	None
1305	500	19.99	492	1.69	-143.9	0.32	6.52	7.48	Clear	Clear	None
1310	500	20.12	491	1.58	-147.9	0.319	6.88	7.47	Clear	Clear	None
1315	500	19.88	491	1.60	-153.1	0.319	7.05	7.45	Clear	Clear	None
1320	500	20.23	491	1.53	-155.1	0.319	7.68	7.45	Clear	Clear	None
1325	500	19.96	491	1.87	-156.8	0.319	8.27	7.44	Clear	Clear	None
1330	500	19.64	491	1.79	-157.1	0.319	8.04	7.43	Clear	Clear	None
1335	500	19.40	491	1.76	-158.0	0.319	8.11	7.43	Clear	Clear	None
1340	500	19.43	491	1.78	-158.4	0.319	7.96	7.43	Clear	Clear	None
1341	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
40	4000		No								
QA/QC Samples N/A									Signature 		



Matrix Environmental Services
283 Rucker Street
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Station Name/Sample ID

OLF-G22

Project

McClellan

Project Number

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 70.94 feet	Sample Method Low Flow	Sampler s. meadows	Date 11/27/2018
Well Depth (TOC) 175 feet		Location (Site) LF3	Begin Time 09:40
Water Column Thickness 104.06 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 162
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 67.64 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI 556 mps	Serial numbers Solinst Water Level Meter Geotech Geocontrol PRO
746.54 feet		Calibration Field 11/27/2018	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 675.6 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0955	0	10.90	3.62	7.77	67.4	0.236	6.22	6.53	Clear	Clear	None
1000	500	10.72	375	6.84	68.7	0.244	6.08	6.51	Clear	Clear	None
1005	500	10.39	388	5.51	69.9	0.253	5.13	6.50	Clear	Clear	None
1010	500	10.82	398	4.50	70.3	0.258	3.88	6.49	Clear	Clear	None
1015	500	10.83	400	4.08	70.3	0.26	3.01	6.49	Clear	Clear	None
1020	500	10.73	402	3.75	70.3	0.261	2.94	6.49	Clear	Clear	None
1025	500	10.27	402	3.37	70.8	0.261	3.13	6.49	Clear	Clear	None
1030	500	10.70	401	3.11	70.8	0.261	3.96	6.48	Clear	Clear	None
1035	500	11.03	401	3.07	70.6	0.261	3.47	6.48	Clear	Clear	None
1036	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
40	4000		No								
QA/QC Samples									Signature		
N/A											



Matrix Environmental Services
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OLF-G23

Project

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
68.94 feet	Low Flow	Tulley	11/15/2018
Well Depth (TOC)	Equipment	Location (Site)	Begin Time
175 feet	Geotech Bladder Pump	LF3	11:15
Water Column Thickness		Laboratory	Sample Depth
106.06 feet		TestAmerica	162
		Sample Suite	
		See COCs	
Casing Diameter	Temperature (°F)	Meters	Serial numbers
4 inches	34	YSI Pro Plus	
Casing Volume	Weather Conditions	Solinst Water Level Meter	
68.94 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Snow	Geotech Geocontrol PRO	
		Calibration	Ferrous Iron (Fe II) (mg/L)
		Field	
743.89 feet		11/15/2018	N/A
Groundwater Elevation	Parameter Stabilization	Product Observed (yes/no)	Depth to product
674.95 feet	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
1315	0	5.80	178.7	7.26	185.6	0.1164	77.42	6.86	Cloudy	Clear	None
1320	200	6.20	204.6	6.52	187.2	0.1333	80.96	6.58	Cloudy	Clear	None
1325	200	6.20	212.4	6.44	187.6	0.1385	64.23	6.52	Cloudy	Clear	None
1330	200	6.20	223.1	5.99	188.7	0.1463	67.85	6.41	Cloudy	Clear	None
1335	200	6.60	255	4.43	188.6	0.1664	60.12	6.29	Cloudy	Clear	None
1340	200	7.30	278	3.41	186.5	0.1833	59.03	6.21	Cloudy	Clear	None
1345	200	7.30	298.2	3.01	185.1	0.195	35.86	6.16	Clear	Clear	None
1350	200	7.80	311.9	3.47	185.4	0.2028	29.03	6.12	Clear	Clear	None
1355	200	8.50	319.2	2.35	184.8	0.208	30.86	6.11	Clear	Clear	None
1400	200	8.80	321.9	2.22	185.6	0.2093	30.14	6.10	Clear	Clear	None
1405	200	8.90	322.6	2.07	186.1	0.2101	29.85	6.09	Clear	Clear	None
1410	200	8.90	322.9	2.01	186.5	0.2102	30.55	6.09	Clear	Clear	None
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
55	2200		no			1411 Collected sample suite					
QA/QC Samples									Signature		
N/A											



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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
69.08 feet			
Well Depth (TOC)	Equipment	Location (Site)	Begin Time
95 feet		LF3	8:30
Water Column Thickness	Geotech Bladder Pump	Laboratory	Sample Depth
25.92 feet		TestAmerica	87
Casing Diameter	Weather Conditions	Meters	
4 inches		YSI Pro Plus	
Casing Volume	Overcast	Solinst Water Level Meter	
16.85 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4		Geotech Geocontrol PRO	
743.89 feet	Parameter Stabilization	Calibration	Ferrous Iron (Fe II) (mg/L)
Groundwater Elevation		Field	
674.81 feet	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	11/15/2018	N/A
		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
9:50	0	8.90	64.4	13.33	149.6	0.0422	214.90	5.88	Cloudy	Brown	None
9:55	400	10.30	65.1	6.95	151.5	0.0422	289.60	5.72	Cloudy	Brown	None
10:00	400	13.30	63.7	4.16	168.0	0.0416	254.80	5.64	Cloudy	Brown	None
10:05	400	13.70	64.5	4.24	169.0	0.0422	178.40	5.64	Cloudy	Brown	None
10:10	400	13.30	64.8	4.38	174.4	0.0422	184.70	5.66	Cloudy	Brown	None
10:15	400	13.70	64.9	4.39	178.1	0.0422	194.80	5.67	Cloudy	Brown	None
10:20	400	13.30	65.3	3.98	178.6	0.0422	199.40	5.69	Cloudy	Brown	None
10:25	400	14.00	65.5	4.21	173.6	0.0436	182.60	5.78	Cloudy	Brown	None
10:30	400	13.80	66.5	3.86	173.7	0.0436	205.10	5.79	Cloudy	Brown	None
10:35	400	13.80	66.5	3.90	174.4	0.0436	189.50	5.81	Cloudy	Brown	None
10:40	400	13.40	66.5	3.89	175.1	0.0436	201.40	5.81	Cloudy	Brown	None
10:45	400	13.60	66.5	3.87	175.1	0.0436	190.80	5.81	Cloudy	Brown	None
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
55	4400		No			10:46 Collected Sample Suite					
QA/QC Samples									Signature		
N/A											



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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 114.05 feet	Sample Method Low Flow	Sampler s. meadows	Date 11/26/2018
Well Depth (TOC) 225 feet		Location (Site) LF3	Begin Time 15:20
Water Column Thickness 110.95 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 215
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 72.12 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI 556 mps	Serial numbers Solinst Water Level Meter Geotech Geocontrol PRO
793.69 feet		Calibration Field 11/26/2018	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 679.64 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1530	0	14.34	161	5.33	-59.5	0.107	101.40	7.57	Cloudy	Clear	None
1535	400	13.68	219	9.59	-51.6	0.148	64.18	7.60	Cloudy	Clear	None
1540	400	13.28	286	7.32	-49.5	0.187	26.18	7.78	Cloudy	Clear	None
1545	400	13.35	306	5.00	-49.2	0.2	14.66	7.93	Clear	Clear	None
1550	400	13.42	310	4.51	-49.2	0.201	11.12	7.97	Clear	Clear	None
1555	400	13.43	312	3.33	-49.8	0.209	8.42	8.05	Clear	Clear	None
1600	400	13.41	311	3.32	-49.5	0.209	9.03	8.06	Clear	Clear	None
1605	400	13.40	312	3.33	-50.0	0.209	8.86	8.06	Clear	Clear	None
1606	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
35	2800		No								
QA/QC Samples DUP#302									Signature 		



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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method Low Flow	Sampler	Date 11/26/2018	
118.95 feet		Location (Site) LF3	Begin Time 14:00	
Well Depth (TOC)		Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 281
291 feet			Sample Suite See COCs	
Water Column Thickness	Temperature (°F) 40	Meters	Serial numbers	
172.05 feet		YSI 556 mps		
Casing Diameter		Solinst Water Level Meter		
4 inches		Geotech Geocontrol PRO		
Casing Volume	Weather Conditions	Calibration	Ferrous Iron (Fe II) (mg/L)	
111.83 gallons		Field	N/A	
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Overcast	11/26/2018		
793.41 feet		Product Observed (yes/no) N/A	Depth to product N/A	
Groundwater Elevation	Parameter Stabilization temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit			
674.46 feet				

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1410	0	18.92	171	4.66	68.4	0.111	49.06	7.51	Clear	Clear	None
1415	500	18.83	193	6.55	69.2	0.125	43.81	7.54	Clear	Clear	None
1420	500	18.71	192	7.53	68.9	0.125	31.32	7.54	Clear	Clear	None
1425	500	18.35	191	7.49	70.1	0.124	28.73	7.52	Clear	Clear	None
1430	500	18.07	195	6.95	70.1	0.127	21.51	7.52	Clear	Clear	None
1435	500	17.39	203	6.03	69.6	0.132	19.30	7.53	Clear	Clear	None
1440	500	17.27	204	5.98	70.0	0.133	17.94	7.54	Clear	Clear	None
1445	500	16.84	203	5.96	70.3	0.133	17.52	7.56	Clear	Clear	None
1446	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
35	3500		No								
QA/QC Samples									Signature		
N/A											



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OLF-G33

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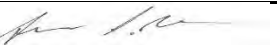
McClellan

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 68.42 feet	Sample Method Low Flow	Sampler s. meadows	Date 11/20/2018
Well Depth (TOC) 182 feet		Location (Site) LF3	Begin Time 09:05
Water Column Thickness 113.58 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 174
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 73.83 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Overcast	Meters YSI 556 mps	Serial numbers Solinst Water Level Meter Geotech Geocontrol PRO
736.98 feet		Calibration Field 11/20/2018	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 668.56 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0925	0	15.34	168	9.07	15.4	0.126	11.32	6.75	Clear	Clear	None
0930	750	16.78	294	6.54	7.1	0.192	11.01	6.92	Clear	Clear	None
0935	750	16.94	364	4.40	13.9	0.238	10.19	7.00	Clear	Clear	None
0940	750	17.05	374	3.82	16.7	0.243	8.42	7.01	Clear	Clear	None
0945	750	17.10	378	3.24	20.3	0.246	7.52	7.01	Clear	Clear	None
0950	750	15.52	377	3.24	24.7	0.243	6.80	7.02	Clear	Clear	None
0955	750	17.36	379	3.03	24.2	0.247	4.78	7.01	Clear	Clear	None
1000	750	17.53	381	2.83	25.4	0.248	3.99	7.00	Clear	Clear	None
1005	750	17.46	383	2.87	28.3	0.249	3.12	7.00	Clear	Clear	None
1010	750	17.39	381	2.83	28.7	0.248	2.89	6.99	Clear	Clear	None
1011	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
45	6750		No								
QA/QC Samples N/A									Signature 		



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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 64.62 feet	Sample Method Low Flow	Sampler s. meadows	Date 11/19/2018
Well Depth (TOC) 261 feet		Location (Site) LF3	Begin Time 14:40
Water Column Thickness 196.38 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 250
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 127.65 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI 556 mps	Serial numbers Solinst Water Level Meter Geotech Geocontrol PRO
737.07 feet		Calibration Field 11/19/2018	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 672.45 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1455	0	19.31	98	5.13	6.3	0.064	16.93	6.72	Clear	Clear	None
1500	750	19.36	101	6.72	10.9	0.066	14.11	6.72	Clear	Clear	None
1505	750	19.62	106	5.70	15.1	0.069	10.12	6.70	Clear	Clear	None
1510	750	19.64	108	5.07	15.6	0.07	8.96	6.70	Clear	Clear	None
1515	750	19.70	110	4.30	15.8	0.071	7.57	6.70	Clear	Clear	None
1520	750	19.65	111	3.87	15.9	0.072	5.81	6.70	Clear	Clear	None
1525	750	19.66	111	3.85	15.9	0.072	5.73	6.70	Clear	Clear	None
1530	750	19.65	111	3.82	15.9	0.072	5.34	6.70	Clear	Clear	None
1531	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
35	5250		No								
QA/QC Samples									Signature		
N/A											



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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	71.42	feet	Sample Method Low Flow	Sampler	Date 11/19/2018
Well Depth (TOC)	258.8	feet		Location (Site) LF3	Begin Time 09:50
Water Column Thickness	187.38	feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 250
Casing Diameter	4	inches		Sample Suite See COCs	
Casing Volume	121.80	gallons	Temperature (°F) 60	Meters YSI 556 mps	Serial numbers Solinst Water Level Meter Geotech Geocontrol PRO
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4				Calibration Field	
	746.09	feet	Weather Conditions Sunny	11/19/2018	N/A
Groundwater Elevation	674.67	feet		Product Observed (yes/no) N/A	Depth to product N/A
			Parameter Stabilization temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit		

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1000	0	19.24	195	3.72	-185.9	0.129	11.81	10.29	Clear	Clear	None
1005	625	19.41	296	5.67	-170.1	0.193	10.22	9.40	Clear	Clear	None
1010	625	19.37	338	5.63	-161.1	0.224	8.15	9.00	Clear	Clear	None
1015	625	19.45	448	3.82	-120.0	0.292	5.46	7.88	Clear	Clear	None
1020	625	19.21	457	3.00	-105.7	0.297	5.95	7.76	Clear	Clear	None
1025	625	19.37	459	2.62	-92.0	0.299	5.59	7.68	Clear	Clear	None
1030	625	19.24	461	2.55	-82.7	0.3	5.12	7.65	Clear	Clear	None
1035	625	19.35	462	2.31	-67.4	0.3	4.89	7.59	Clear	Clear	None
1040	625	19.45	462	2.00	-51.8	0.3	5.03	7.54	Clear	Clear	None
1045	625	19.49	462	2.01	-48.9	0.301	4.97	7.54	Clear	Clear	None
1050	625	19.50	462	1.98	-46.9	0.301	4.82	7.54	Clear	Clear	None
1051	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
50	6250		No								
QA/QC Samples								Signature			
N/A											



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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 73.06 feet	Sample Method Low Flow	Sampler Tulley	Date 11/19/2018
Well Depth (TOC) 174.5 feet		Location (Site) LF3	Begin Time 13:00
Water Column Thickness 101.44 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 165
		Sample Suite See COCs	
Casing Diameter 2 inches	Temperature (°F) 68	Meters YSI Pro Plus	Serial numbers Solinst Water Level Meter Geotech Geocontrol PRO
Casing Volume 16.23 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Calibration Field	Ferrous Iron (Fe II) (mg/L) N/A
746.09 feet		11/19/2018	
Groundwater Elevation 673.03 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1450	0	21.00	449.9	8.31	37.1	0.301	21.13	7.29	Clear	Clear	None
1455	350	19.20	468.5	8.38	1.3	0.3042	24.05	7.54	Clear	Clear	None
15:00	350	17.80	509.3	8.25	-17.3	0.34	14.82	7.41	Clear	Clear	None
15:05	350	18.50	559.8	7.38	-25.6	0.364	17.77	7.45	Clear	Clear	None
1510	350	18.60	596	8.83	-12.7	0.39	10.85	7.44	Clear	Clear	None
15:15	350	18.50	609	8.98	-9.1	0.3965	9.08	7.43	Clear	Clear	None
1520	350	18.50	655	8.96	-15.3	0.4225	10.11	7.39	Clear	Clear	None
1525	350	18.30	682	7.70	-32.3	0.442	8.96	7.37	Clear	Clear	None
1530	350	18.50	690	6.20	-39.1	0.4485	9.42	7.37	Clear	Clear	None
1535	350	17.80	695	5.48	-45.5	0.4485	9.01	7.36	Clear	Clear	None
1540	350	17.60	694	5.06	-45.5	0.4485	9.44	7.36	Clear	Clear	None
1545	350	17.40	694	4.98	-45.2	0.4485	8.98	7.36	Clear	Clear	None
Total Time (min.) 65	Total Volume Removed 3850	Well pumped dry (yes/no) No		Notes 1546 Collected Sample Suite							

QA/QC Samples
MS/MSD

Signature

[Signature]



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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 60.38 feet	Sample Method Low Flow	Sampler Tulley	Date 11/28/2018
Well Depth (TOC) 322 feet		Location (Site) LF3	Begin Time 10:00
Water Column Thickness 261.62 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 312
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 170.05 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI Pro Plus Solinst Water Level Meter Geotech Geocontrol PRO	Serial numbers
717.46 feet		Calibration Field 11/28/2018	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 657.08 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
11:15	0	13.30	78.8	5.16	41.8	0.052	87.46	6.62	Cloudy	Clear	None
11:20	500	13.00	97.6	4.91	40.6	0.0637	92.02	6.61	Cloudy	Clear	None
11:25	500	13.90	334.9	4.49	39.0	0.2171	86.86	7.17	Cloudy	Clear	None
11:30	500	14.70	359.3	4.39	59.7	0.2346	72.24	7.27	Cloudy	Clear	None
11:35	500	14.50	362.7	4.54	66.8	0.234	58.86	7.28	Cloudy	Clear	None
11:40	500	14.00	364.1	4.44	75.2	0.2379	40.11	7.31	Clear	Clear	None
11:45	500	14.00	366.1	4.44	78.6	0.2379	50.49	7.31	Clear	Clear	None
11:50	500	14.20	367.6	4.38	82.2	0.2386	42.84	7.31	Clear	Clear	None
11:55	500	14.90	372.6	5.26	86.3	0.2418	31.27	7.36	Clear	Clear	None
12:00	500	14.60	372.1	5.17	92.3	0.2418	32.09	7.36	Clear	Clear	None
12:05	500	14.50	372.3	5.11	92.2	0.2416	31.44	7.35	Clear	Clear	None
12:06			Collected Sample Suite								
Total Time (min.) 50	Total Volume Removed 5000	Well pumped dry (yes/no) No		Notes N/A							

QA/QC Samples

N/A

Signature

[Signature]



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

Station Name/Sample ID

OLF-G48

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
50.77 feet	Low Flow	s. meadows	11/15/2018
Well Depth (TOC)	Equipment	Location (Site)	Begin Time
405 feet	Geotech Bladder Pump	LF3	10:00
Water Column Thickness		Laboratory	Sample Depth
354.23 feet		TestAmerica	395
		Sample Suite	
		See COCs	
Casing Diameter	Temperature (°F)	Meters	Serial numbers
2 inches	50	YSI 556 mps	
Casing Volume	Weather Conditions	Solinst Water Level Meter	
56.68 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Overcast	Geotech Geocontrol PRO	
		Calibration	Ferrous Iron (Fe II) (mg/L)
717.63 feet		Field	
		11/15/2018	N/A
Groundwater Elevation	Parameter Stabilization	Product Observed (yes/no)	Depth to product
666.86 feet	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
1015	0	15.11	93	4.57	-59.6	0.062	7.88	7.05	Clear	Clear	None
1020	750	15.26	228	5.36	-42.6	0.152	7.14	7.44	Clear	Clear	None
1025	750	15.43	318	4.64	-17.0	0.207	6.48	7.75	Clear	Clear	None
1030	750	15.70	323	4.34	-7.0	0.21	4.11	7.78	Clear	Clear	None
1035	750	15.46	324	4.18	-1.2	0.211	4.17	7.80	Clear	Clear	None
1040	750	15.39	325	4.12	5.8	0.211	2.86	7.80	Clear	Clear	None
1045	750	15.45	325	4.04	9.1	0.211	3.16	7.80	Clear	Clear	None
1050	750	15.52	326	4.10	13.3	0.212	2.91	7.81	Clear	Clear	None
1055	750	15.50	326	4.08	15.1	0.212	3.52	7.81	Clear	Clear	None
1100	750	15.59	326	4.01	16.2	0.212	3.15	7.81	Clear	Clear	None
1101	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
45	6750		No								
QA/QC Samples N/A									Signature 		



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

Station Name/Sample ID

OLF-G52

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
68.09 feet	Low Flow	s.meadows	11/20/2018
Well Depth (TOC)	Equipment	Location (Site)	Begin Time
377.5 feet	Geotech Bladder Pump	LF3	11:15
Water Column Thickness		Laboratory	Sample Depth
309.41 feet		TestAmerica	367
		Sample Suite	
		See COCs	
Casing Diameter	Temperature (°F)	Meters	Serial numbers
4 inches	50	YSI 556 mps	
Casing Volume	Weather Conditions	Solinst Water Level Meter	
201.12 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Overcast	Geotech Geocontrol PRO	
		Calibration	Ferrous Iron (Fe II) (mg/L)
723.83 feet		Field	
		11/20/2018	N/A
Groundwater Elevation	Parameter Stabilization	Product Observed (yes/no)	Depth to product
655.74 feet	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
1125	0	19.20	453	3.20	-112.8	0.292	13.36	10.70	Clear	Clear	None
1130	750	19.72	357	3.00	-91.0	0.231	10.86	9.71	Clear	Clear	None
1135	750	20.31	364	2.64	-65.4	0.237	8.16	8.79	Clear	Clear	None
1140	750	20.53	366	2.64	-53.9	0.238	6.93	8.58	Clear	Clear	None
1145	750	20.41	367	2.59	-45.8	0.238	5.15	8.42	Clear	Clear	None
1150	750	20.48	367	2.58	-40.3	0.239	4.91	8.35	Clear	Clear	None
1155	750	20.48	368	2.54	-34.8	0.239	4.86	8.26	Clear	Clear	None
1200	750	20.69	367	2.44	-29.7	0.239	5.02	8.18	Clear	Clear	None
1205	750	20.38	368	2.50	-28.0	0.239	5.16	8.16	Clear	Clear	None
1210	750	18.69	367	2.56	-23.3	0.239	4.98	8.08	Clear	Clear	None
1215	750	19.86	367	2.37	-20.4	0.238	4.56	8.05	Clear	Clear	None
1220	750	20.40	368	2.34	-20.2	0.239	4.71	8.04	Clear	Clear	None
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
75	11,250		No			See page #2					
QA/QC Samples									Signature		
N/A											



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

Station Name/Sample ID

OLF-G70

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date	
62.07		s. meadows	11/26/2018	
		Location (Site)	Begin Time	
Well Depth (TOC)		LF3	10:00	
400	Equipment	Laboratory	Sample Depth	
		TestAmerica	395	
Water Column Thickness		Sample Suite		
337.93	Geotech Bladder Pump	See COCs		
	Temperature (°F)	Meters	Serial numbers	
Casing Diameter		40	YSI 556 mps	
4			Solinst Water Level Meter	
Casing Volume	Weather Conditions	Geotech Geocontrol PRO		
219.65		Calibration	Ferrous Iron (Fe II) (mg/L)	
		Field		
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Overcast	11/26/2018	N/A	
722.11				
Groundwater Elevation	Parameter Stabilization	Product Observed (yes/no)	Depth to product	
660.04		N/A	N/A	
	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit			

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1010	0	15.07	3.57	9.00	159.5	0.232	10.51	7.30	Clear	Clear	None
1015	500	15.90	353	6.27	128.1	0.229	9.86	7.57	Clear	Clear	None
1020	500	16.19	350	5.04	119.8	0.228	8.42	7.69	Clear	Clear	None
1025	500	16.20	349	5.37	107.3	0.227	8.73	7.75	Clear	Clear	None
1030	500	16.14	349	5.87	100.2	0.227	7.31	7.77	Clear	Clear	None
1035	500	16.17	349	5.30	96.4	0.227	5.18	7.76	Clear	Clear	None
1040	500	16.62	348	4.09	89.4	0.226	4.33	7.78	Clear	Clear	None
1045	500	16.89	349	3.77	86.5	0.227	4.09	7.79	Clear	Clear	None
1050	500	16.66	349	3.66	85.6	0.227	3.95	7.78	Clear	Clear	None
1051	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
40	4000		No								
QA/QC Samples N/A									Signature 		



Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
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Station Name/Sample ID

OLF-G74

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) N/A feet	Sample Method FLUTE well purge	Sampler Tulley	Date 11/12/2018
Well Depth (TOC) 265 feet		Location (Site) LF3	Begin Time 09:45
Water Column Thickness N/A feet	Equipment Multi-level Port Well	Laboratory TestAmerica	Sample Depth Sampled from Ports
		Sample Suite See COCs	
Casing Diameter N/A inches	Temperature (°F) 45°	Meters YSI Pro Plus	Serial numbers
Casing Volume N/A gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Heavy Rain	Solinst Water Level Meter Geotech Geocontrol PRO	
750.44 feet		Calibration Field 11/12/2018	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation N/A 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

Well Port	Sample Time	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
Port 1	12:28	14.10	74.2	4.45	191.9	0.0481	4.17	5.69	Clear	Clear	None
Port 2	13:05	14.50	392	1.60	45.4	0.2548	1.91	6.29	Clear	Clear	None
Port 3	13:35	16.80	522.3	1.45	47.7	0.3393	2.30	7.32	Clear	Clear	None
Port 4	14:20	17.50	460.7	1.16	-92.1	0.2996	2.48	7.49	Clear	Clear	None
Port 5	15:00	16.90	458.1	1.50	-58.7	0.2977	1.98	7.53	Clear	Clear	None

Total Time (min.) N/A	Total Volume Removed N/A	Well pumped dry (yes/no) Yes	Notes N/A

QA/QC Samples N/A	Signature



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

Station Name/Sample ID

OLF-G75 Screen 1

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 74.42 feet	Sample Method Low Flow	Sampler Tulley	Date 8:30
Well Depth (TOC) 300.5 feet		Location (Site) LF3	Begin Time 11/26/18
Water Column Thickness 226.08 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 90
Casing Diameter 2 inches		Sample Suite See COCs	
Casing Volume 36.17 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Overcast	Meters YSI Pro Plus	Serial numbers Solinst Water Level Meter
749.89 feet		Geotech Geocontrol PRO	Calibration Field
Groundwater Elevation 675.47 feet	Parameter Stabilization temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	11/26/2018	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
9:45	0	7.80	60.7	12.18	146.3	0.0397	100.70	5.77	Cloudy	Brown	None
9:50	375	7.90	55.2	10.24	168.0	0.0357	187.40	5.58	Cloudy	Brown	None
9:55	375	8.30	52.6	8.76	186.2	0.0344	152.80	5.61	Cloudy	Brown	None
10:00	375	8.60	51.6	7.56	201.4	0.0332	180.90	5.54	Cloudy	Brown	None
10:05	375	8.60	51.5	7.53	202.5	0.0332	161.80	5.53	Cloudy	Brown	None
10:10	375	8.60	50.7	7.29	209.8	0.0332	140.50	5.54	Cloudy	Brown	None
10:15	375	7.19	50.5	7.16	211.6	0.0332	112.40	5.54	Cloudy	Brown	None
10:20	375	8.90	50.2	7.11	215.6	0.0325	105.60	5.55	Cloudy	Brown	None
10:25	375	8.90	50.1	7.10	216.9	0.0325	110.40	5.55	Cloudy	Brown	None
10:30	375	9.80	49.7	6.97	220.9	0.0325	104.50	5.54	Cloudy	Brown	None
10:35	375	10.00	49.8	6.93	221.4	0.0325	109.50	5.54	Cloudy	Brown	None
10:40	375	10.00	49.8	6.99	221.5	0.0325	111.10	5.55	Cloudy	Brown	None
Total Time (min.) 55	Total Volume Removed 4125	Well pumped dry (yes/no) No		Notes Water is very cloudy, little brown tint. 10:41 Collect Sample Suite							

QA/QC Samples

N/A

Signature



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

Station Name/Sample ID

OLF-G75 Screen 2

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 74.42 feet	Sample Method Low Flow	Sampler Tulley	Date 11/26/2018
Well Depth (TOC) 300.5 feet		Location (Site) LF3	Begin Time 11:00
Water Column Thickness 226.08 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 130
		Sample Suite See COCs	
Casing Diameter 2 inches	Temperature (°F) 50	Meters YSI Pro Plus	Serial numbers
Casing Volume 36.17 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Overcast	Solinst Water Level Meter Geotech Geocontrol PRO	
749.89 feet		Calibration Field	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 675.47 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
11:45	0	9.90	49.6	5.42	221.9	0.0325	189.90	5.52	Cloudy	Brown	None
11:50	375	10.20	49.5	5.36	227.0	0.0325	210.10	5.52	Cloudy	Brown	None
11:55	375	10.20	49.6	5.26	228.2	0.0325	204.20	5.52	Cloudy	Brown	None
12:00	375	10.70	50	6.92	233.4	0.0325	212.10	5.45	Cloudy	Brown	None
12:05	375	12.00	61.7	10.16	233.5	0.0403	186.70	5.68	Cloudy	Brown	None
12:10	375	11.80	61.5	10.43	230.1	0.0397	120.40	5.68	Cloudy	Clear	None
12:15	375	11.60	59.6	10.82	229.9	0.0391	97.08	5.66	Cloudy	Clear	None
12:20	375	11.80	59.7	10.95	231.7	0.0391	90.01	5.67	Cloudy	Clear	None
12:25	375	12.20	59.3	12.34	237.6	0.0391	91.41	5.65	Cloudy	Clear	None
12:30	375	12.50	60.1	12.54	242.4	0.0391	85.98	5.65	Cloudy	Clear	None
12:35	375	11.80	60.5	12.08	242.1	0.0391	90.22	5.65	Cloudy	Clear	None
12:40	375	11.60	61.1	11.93	245.1	0.0391	87.14	5.65	Cloudy	Clear	None
Total Time (min.) 55	Total Volume Removed 4125	Well pumped dry (yes/no) No		Notes Water is very cloudy. 12:41 Collected Sample Suite							

QA/QC Samples

N/A

Signature



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

Station Name/Sample ID

OLF-G75 Screen 3

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 74.42 feet	Sample Method Low Flow	Sampler Tulley	Date 11/26/2018
Well Depth (TOC) 300.5 feet		Location (Site) LF3	Begin Time 1330
Water Column Thickness 226.08 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 170
		Sample Suite See COCs	
Casing Diameter 2 inches	Temperature (°F) 48	Meters YSI Pro Plus	Serial numbers
Casing Volume 36.17 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Overcast	Solinst Water Level Meter Geotech Geocontrol PRO	
749.89 feet		Calibration Field 11/26/2018	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 675.47 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
14:10	0	15.40	550.8	5.20	191.0	0.3581	53.86	7.39	Cloudy	Clear	None
14:15	375	16.30	558.5	3.67	171.3	0.3627	45.27	7.44	Cloudy	Clear	None
14:20	375	16.40	559.2	2.90	150.6	0.3634	30.08	7.47	Clear	Clear	None
14:25	375	15.90	558.6	2.74	147.6	0.3665	24.86	7.48	Clear	Clear	None
14:30	375	15.60	559.3	2.79	146.0	0.3646	22.12	7.45	Clear	Clear	None
14:35	375	15.60	558.6	2.49	149.2	0.3634	20.03	7.47	Clear	Clear	None
14:40	375	15.10	558.3	2.75	127.2	0.3641	12.74	7.48	Clear	Clear	None
14:45	375	15.40	557.4	3.01	116.7	0.3627	8.06	7.49	Clear	Clear	None
14:50	375	15.40	557.3	2.65	102.1	0.3627	9.12	7.48	Clear	Clear	None
14:55	375	15.80	557.4	2.67	102.0	0.3627	8.85	7.48	Clear	Clear	None
15:00	375	15.90	557.5	2.63	101.9	0.3627	9.09	7.48	Clear	Clear	None
15:01			Collected Sample Suite								
Total Time (min.) 50	Total Volume Removed 3750	Well pumped dry (yes/no) No		Notes							

QA/QC Samples

N/A

Signature



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

Station Name/Sample ID

OLF-G75 Screen 5

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 74.42 feet	Sample Method Low Flow	Sampler Tulley	Date 11/27/2018
Well Depth (TOC) 300.5 feet		Location (Site) LF3	Begin Time 10:00
Water Column Thickness 226.08 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 250
		Sample Suite See COCs	
Casing Diameter 2 inches	Temperature (°F) 34	Meters YSI Pro Plus	Serial numbers Solinst Water Level Meter
Casing Volume 36.17 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Geotech Geocontrol PRO	
749.89 feet		Calibration Field	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 675.47 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
10:30	0	12.00	525.6	2.39	158.7	0.3412	86.97	7.42	Cloudy	Clear	None
10:35	500	11.10	521	2.08	154.2	0.3387	102.40	7.42	Cloudy	Clear	None
10:40	500	11.90	520.9	1.95	152.4	0.3393	98.90	7.43	Cloudy	Clear	None
10:45	500	11.30	521.1	2.00	152.4	0.3393	94.36	7.42	Cloudy	Clear	None
10:50	500	10.90	520.5	2.13	152.6	0.3387	98.12	7.43	Cloudy	Clear	None
10:55	500	10.90	521.4	1.96	152.5	0.3387	101.10	7.43	Cloudy	Clear	None
11:00	500	10.80	520.6	2.01	152.7	0.3387	99.70	7.43	Cloudy	Clear	None
11:05	500	10.90	520.7	1.95	152.4	0.3387	98.87	7.43	Cloudy	Clear	None
11:06											

Total Time (min.) 35	Total Volume Removed 3500	Well pumped dry (yes/no) No	Notes water looks clear but has a very fine dust.

QA/QC Samples N/A	Signature



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

Station Name/Sample ID

OLF-G75 Screen 6

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 74.42 feet	Sample Method Low Flow	Sampler Tulley	Date 11/27/2018
Well Depth (TOC) 300.5 feet		Location (Site) LF3	Begin Time 8:30
Water Column Thickness 226.08 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 290
		Sample Suite See COCs	
Casing Diameter 2 inches	Temperature (°F) 30	Meters YSI Pro Plus	Serial numbers
Casing Volume 36.17 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Solinst Water Level Meter Geotech Geocontrol PRO	
749.89 feet		Calibration Field 11/27/2018	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 675.47 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
910	0	14.50	525.5	5.11	143.2	0.3419	47.21	7.32	Clear	Clear	None
915	500	14.70	525.6	4.95	142.5	0.3425	45.01	7.33	Clear	Clear	None
920	500	14.30	527.2	3.06	140.7	0.3412	43.55	7.35	Clear	Clear	None
925	500	13.90	526.6	2.60	139.3	0.3419	38.11	7.37	Clear	Clear	None
930	500	13.30	524.5	2.46	140.1	0.3419	42.01	7.37	Clear	Clear	None
935	500	13.80	526.7	2.41	137.7	0.3419	33.09	7.39	Clear	Clear	None
9:40	500	14.10	527.1	2.39	136.5	0.3425	31.27	7.40	Clear	Clear	None
9:45	500	13.90	526.9	2.38	136.1	0.3425	34.82	7.39	Clear	Clear	None
9:46	Collected Sample Suite										
	9-2										
	11/27/18										

Total Time (min.) 35	Total Volume Removed 3500	Well pumped dry (yes/no) No	Notes N/A

QA/QC Samples N/A	Signature



Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
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Station Name/Sample ID

OLF-G77

Project

McClellan

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18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 64.02 feet	Sample Method Low Flow	Sampler s. meadows	Date 11/13/2018
Well Depth (TOC) 84.5 feet		Location (Site) LF3	Begin Time 09:30
Water Column Thickness 20.48 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 79
Casing Diameter 2 inches		Sample Suite See COCs	
Casing Volume 3.28 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Temperature (°F) 50	Meters YSI Pro Plus	Serial numbers
747.04 feet		Solinst Water Level Meter	
Groundwater Elevation 683.02 feet	Weather Conditions rain	Geotech Geocontrol PRO	
		Calibration Field	Ferrous Iron (Fe II) (mg/L) N/A
	Parameter Stabilization temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	11/13/2018	
		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
0940	0	14.86	295	5.01	156.0	0.192	31.04	5.99	Clear	Clear	None
0945	300	14.51	300	4.23	148.8	0.195	28.16	6.01	Clear	Clear	None
0950	300	14.39	306	3.95	141.7	0.199	29.49	6.03	Clear	Clear	None
0955	300	14.28	313	3.62	135.8	0.203	28.87	6.05	Clear	Clear	None
1000	300	14.25	320	3.26	130.8	0.208	28.93	6.07	Clear	Clear	None
1005	300	14.43	322	3.07	128.2	0.209	29.32	6.07	Clear	Clear	None
1010	300	14.46	322	2.91	126.6	0.209	29.15	6.07	Clear	Clear	None
1015	300	14.49	321	2.99	123.8	0.209	28.76	6.06	Clear	Clear	None
1020	300	14.48	321	2.97	123.4	0.209	28.43	6.06	Clear	Clear	None
1021	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
40	2400		No								
QA/QC Samples DUP#306									Signature 		



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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date	
72.62		s. meadows	11/12/2018	
		Location (Site)	Begin Time	
Well Depth (TOC)		LF3	10:50	
85	Equipment	Laboratory	Sample Depth	
		TestAmerica	80	
Water Column Thickness		Sample Suite		
12.38	Geotech Bladder Pump	See COCs		
	Temperature (°F)	Meters	Serial numbers	
Casing Diameter		40	YSI 556 mps	
2			Solinst Water Level Meter	
Casing Volume	Weather Conditions	Geotech Geocontrol PRO		
1.98		Calibration	Ferrous Iron (Fe II) (mg/L)	
		Field		
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Rain	11/12/2018	N/A	
748.99				
	Parameter Stabilization	Product Observed (yes/no)	Depth to product	
Groundwater Elevation		N/A	N/A	
676.37	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit			

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1120	0	9.89	92	7.83	167.2	0.06	39.30	5.71	Clear	Clear	None
1125	400	10.19	88	8.43	157.9	0.057	33.50	5.70	Clear	Clear	None
1130	400	11.35	89	7.14	154.2	0.058	28.60	5.70	Clear	Clear	None
1135	400	10.60	91	6.09	150.0	0.059	24.90	5.71	Clear	Clear	None
1140	400	10.45	92	5.71	147.3	0.059	25.18	5.72	Clear	Clear	None
1145	400	10.45	92	5.53	146.0	0.06	19.86	5.73	Clear	Clear	None
1150	400	10.39	92	5.34	143.0	0.06	15.90	5.73	Clear	Clear	None
1155	400	10.38	93	5.10	140.8	0.06	12.75	5.74	Clear	Clear	None
1200	400	10.42	93	4.89	137.1	0.061	12.15	5.74	Clear	Clear	None
1205	400	11.82	94	5.79	135.9	0.061	11.52	5.72	Clear	Clear	None
1210	400	12.29	132.6	5.60	132.9	0.084	11.09	5.86	Clear	Clear	None
1215	400	12.41	146	4.62	130.2	0.095	10.41	5.93	Clear	Clear	None
Total Time (min.) 90	Total Volume Removed 7200	Well pumped dry (yes/no) No				Notes See page #2					
QA/QC Samples N/A									Signature 		



Matrix Environmental Services
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PPMP-229-GP12

Project

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method Low Flow	Sampler s. meadows	Date 11/14/2018
Well Depth (TOC) 168 feet		Location (Site) LF3	Begin Time 1120
Water Column Thickness 168 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 163
		Sample Suite See COCs	
Casing Diameter 4 inches	Temperature (°F) 50	Meters YSI 556 mps	Serial numbers Solinst Water Level Meter
Casing Volume 109.20 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Overcast	Geotech Geocontrol PRO	
		Calibration Field	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 743.79 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1145	0	14.03	251	8.04	23.3	0.163	6.01	10.54	Clear	Clear	None
1150	500	13.97	247	9.14	21.6	0.161	5.62	10.58	Clear	Clear	None
1155	500	13.93	243	7.59	20.6	0.158	5.43	10.66	Clear	Clear	None
1200	500	14.00	243	6.18	18.6	0.158	4.18	10.72	Clear	Clear	None
1205	500	14.01	245	4.47	15.3	0.159	2.89	10.79	Clear	Clear	None
1210	500	14.26	245	3.54	12.9	0.159	2.16	10.82	Clear	Clear	None
1215	500	14.27	245	3.21	10.8	0.159	1.84	10.84	Clear	Clear	None
1220	500	14.23	244	3.20	10.1	0.159	1.74	10.85	Clear	Clear	None
1225	500	14.32	240	2.85	9.6	0.156	1.92	10.80	Clear	Clear	None
1230	500	14.56	225	2.65	11.4	0.146	2.13	10.60	Clear	Clear	None
1235	500	14.76	212	2.54	14.2	0.138	1.86	10.37	Clear	Clear	None
1240	500	14.86	209	2.12	15.0	0.136	1.80	10.26	Clear	Clear	None
Total Time (min.) 70	Total Volume Removed 7000	Well pumped dry (yes/no) No				Notes See page #2					
QA/QC Samples N/A									Signature 		



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(256) 847-0905

Project Name

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GROUNDWATER LEVELS

Field Personnel

Tulley/Meadows

Measuring Equipment

Solinst Water Level Meter

Date

4/30/2019

Conditions

Sunny, High 88°

Well ID	Casing Diameter	Date	Time	Depth to Water (feet)	Well Depth (feet)	Water Column (feet)	Initials
OLF-G06	4 inch	4/30/2019	10:40	65.21	72.58	7.37	JT
OLF-G07	4 inch	4/30/2019	10:47	41.77	62.5	20.73	JT
OLF-G08	4 inch	4/30/2019	10:53	30.94	45	14.06	JT
OLF-G12	4 inch	4/30/2019	9:37	61.76	87	25.24	JT
OLF-G18	4 inch	4/30/2019	10:14	38.60	58.3	19.70	JT
OLF-G20	4 inch	4/30/2019	11:00	52.87	175	122.13	JT
OLF-G21	4 inch	4/30/2019	10:20	51.47	175	123.53	JT
OLF-G22	4 inch	4/30/2019	9:30	63.08	175	111.92	JT
OLF-G23	4 inch	4/30/2019	10:00	65.51	175	109.49	JT
OLF-G24	4 inch	4/30/2019	9:50	61.19	95	33.81	JT
OLF-G31	4 inch	4/30/2019	10:26	102.38	225	122.62	JT
OLF-G32	4 inch	4/30/2019	10:34	109.71	291	181.29	JT
OLF-G35	4 inch	4/30/2019	10:06	60.52	260	199.48	JT
OLF-G36	4 inch	4/30/2019	9:44	62.53	258.8	196.27	JT
OLF-G42	2 inch	4/30/2019	11:07	65.56	174.5	108.94	JT
OLF-G47	2 inch	4/30/2019	9:16	57.73	322	264.27	JT
OLF-G48	2 inch	4/30/2019	9:22	45.47	405	359.53	JT
OLF-G52	2 inch	4/30/2019	9:10	48.87	377.5	328.63	JT
OLF-G70	4 inch	4/30/2019	9:05	58.65	400	341.35	JT
OLF-G71 Port 1	FLUTe	5/1/2019	9:03	38.67	245	206.33	JT
OLF-G71 Port 2	FLUTe	5/1/2019	9:05	53.60	245	191.40	JT
OLF-G71 Port 3	FLUTe	5/1/2019	9:07	53.02	245	191.98	JT
OLF-G71 Port 4	FLUTe	5/1/2019	9:09	58.14	245	186.86	JT
OLF-G71 Port 5	FLUTe	5/1/2019	9:11	58.57	245	186.43	JT
OLF-G72 Port 1	FLUTe	5/2/2019	8:15	61.47	245	183.53	JT



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(256) 847-0905

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GROUNDWATER LEVELS

Well ID	Casing Diameter	Date	Time	Depth to Water (feet)	Well Depth (feet)	Water Column (feet)	Initials
OLF-G72 Port 2	FLUTe	5/2/2019	8:17	61.95	245	183.05	JT
OLF-G72 Port 3	FLUTe	5/2/2019	8:19	63.62	245	181.38	JT
OLF-G72 Port 4	FLUTe	5/2/2019	8:21	63.80	245	181.2	JT
OLF-G72 Port 5	FLUTe	5/2/2019	8:23	62.79	245	182.21	JT
OLF-G72 Port 6	FLUTe	5/2/2019	8:25	62.85	245	182.15	JT
OLF-G73 Port 1	FLUTe	5/1/2019	12:35	65.18	270	204.82	JT
OLF-G73 Port 2	FLUTe	5/1/2019	12:37	65.79	270	204.21	JT
OLF-G73 Port 3	FLUTe	5/1/2019	12:39	65.57	270	204.43	JT
OLF-G73 Port 4	FLUTe	5/1/2019	12:41	65.32	270	204.68	JT
OLF-G73 Port 5	FLUTe	5/1/2019	12:43	19.31	270	250.69	JT
OLF-G74 Port 1	FLUTe	5/1/2019	9:35	27.00	265	238	JT
OLF-G74 Port 2	FLUTe	5/1/2019	9:37	28.60	265	236.4	JT
OLF-G74 Port 3	FLUTe	5/1/2019	9:39	66.40	265	198.6	JT
OLF-G74 Port 4	FLUTe	5/1/2019	9:41	22.70	265	242.3	JT
OLF-G74 Port 5	FLUTe	5/1/2019	9:42	21.90	265	243.1	JT
OLF-G75	2 inch	4/30/2019	11:38	66.68	300.5	233.82	JT
OLF-G77	2 inch	4/30/2019	11:45	56.59	84.5	27.91	JT
OLF-G78	2 inch	4/30/2019	12:00	64.23	85	20.77	JT
PPMP-229-GP12	4 inch	4/30/2019	11:30	26.31	168	141.69	JT



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Station Name/Sample ID

OLF-G06

Project

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 65.21 feet	Sample Method Low Flow	Sampler Meadows	Date 5/6/2019
Well Depth (TOC) 72.7 feet		Location (Site) LF3	Begin Time 09:20
Water Column Thickness 7.49 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 65
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 4.87 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI Pro Plus	Serial numbers Solinst Water Level Meter Geotech Geocontrol PRO
750.06 feet		Calibration Field 5/6/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 684.85 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0930	0	22.90	27	9.52	171.4	0.0175	15.02	5.59	Clear	Clear	None
0935	450	22.70	25.4	8.76	201.7	0.0163	11.87	5.31	Clear	Clear	None
0940	450	22.90	25.3	8.55	202.9	0.0163	12.93	5.30	Clear	Clear	None
0945	450	22.80	25.4	8.79	208.7	0.0163	11.42	5.24	Clear	Clear	None
0950	450	22.70	25.3	8.67	209.9	0.0163	11.08	5.15	Clear	Clear	None
0955	450	22.20	25.3	8.81	212.5	0.0163	10.83	5.22	Clear	Clear	None
1000	450	22.10	25.3	8.53	211.3	0.0163	11.43	5.12	Clear	Clear	None
1005	450	22.10	25.2	8.23	212.1	0.0163	11.09	5.12	Clear	Clear	None
1006	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
35	3150		No								
QA/QC Samples N/A									Signature 		



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Station Name/Sample ID

OLF-G07

Project

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 41.84 feet	Sample Method Low Flow	Sampler S. Meadows	Date 5/7/2019
Well Depth (TOC) 62.5 feet		Location (Site) LF3	Begin Time 9:35
Water Column Thickness 20.66 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 57
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 13.43 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI Pro Plus Solinst Water Level Meter Geotech Geocontrol PRO	Serial numbers
741.36 feet		Calibration Field 5/7/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 699.52 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0945	0	20.20	70.5	6.41	202.8	0.0462	4.86	5.06	Clear	Clear	None
0950	600	19.90	68.5	5.45	226.7	0.0448	3.97	4.93	Clear	Clear	None
0955	600	20.00	68.5	5.34	238.0	0.0448	5.91	4.98	Clear	Clear	None
1000	600	19.90	69.2	5.53	240.2	0.0448	8.08	4.98	Clear	Clear	None
1005	600	19.70	69	5.21	245.1	0.0448	7.58	4.96	Clear	Clear	None
1010	600	20.10	69	5.01	242.7	0.0448	6.39	5.02	Clear	Clear	None
1015	600	20.10	69.2	5.44	246.7	0.0448	4.59	4.98	Clear	Clear	None
1020	600	20.00	69.2	4.90	246.1	0.0448	4.03	4.99	Clear	Clear	None
1025	600	20.20	69.6	4.71	247.0	0.0455	3.28	4.98	Clear	Clear	None
1030	600	20.20	69.7	4.74	247.8	0.0455	3.72	4.99	Clear	Clear	None
1031	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
45	5400		No								
QA/QC Samples MS/MSD									Signature 		



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OLF-G08

Project

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 30.91 feet	Sample Method Low Flow	Sampler S.Meadows	Date 5/7/2019
Well Depth (TOC) 45 feet		Location (Site) LF3	Begin Time 14:30
Water Column Thickness 14.09 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 37
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 9.16 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI Pro Plus Solinst Water Level Meter Geotech Geocontrol PRO	Serial numbers
739.3 feet		Calibration Field 5/7/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 708.39 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1440	0	20.30	105.1	5.98	220.7	0.0682	6.24	5.57	Clear	Clear	None
1445	600	20.70	101.3	5.17	127.7	0.0657	4.89	5.54	Clear	Clear	None
1450	600	20.30	99.8	4.66	246.5	0.065	5.13	5.54	Clear	Clear	None
1455	600	20.20	99.1	4.45	249.6	0.0643	4.16	5.54	Clear	Clear	None
1500	600	20.06	96	4.22	256.4	0.0624	4.07	5.52	Clear	Clear	None
1505	600	20.50	95.2	4.23	257.8	0.0618	3.27	5.52	Clear	Clear	None
1510	600	20.20	95.2	4.11	258.5	0.0618	3.11	5.52	Clear	Clear	None
1515	600	20.50	94.6	3.96	260.8	0.0618	3.51	5.52	Clear	Clear	None
1520	600	20.20	94.4	3.99	262.0	0.0611	2.58	5.52	Clear	Clear	None
1525	600	20.20	94	3.96	263.9	0.0611	2.73	5.52	Clear	Clear	None
1526	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
45	5400		No								
QA/QC Samples N/A									Signature 		



Matrix Environmental Services
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OLF-G12

Project

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date	
62.03		S.Meadows	5/8/2019	
		Location (Site)	Begin Time	
Well Depth (TOC)		LF3	1415	
87	Equipment	Laboratory	Sample Depth	
		TestAmerica	80	
Water Column Thickness		Sample Suite		
24.97	Geotech Bladder Pump	See COCs		
	Temperature (°F)	Meters	Serial numbers	
Casing Diameter		80	YSI Pro Plus#2	
4			Solinst Water Level Meter	
Casing Volume	Weather Conditions	Geotech Geocontrol PRO		
16.23		Calibration	Ferrous Iron (Fe II) (mg/L)	
		Field		
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Sunny	5/8/2019	N/A	
745.43				
	Parameter Stabilization	Product Observed (yes/no)	Depth to product	
Groundwater Elevation		N/A	N/A	
683.4	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit			

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1425	0	27.50	68.5	5.59	281.3	0.0455	21.99	5.36	Clear	Clear	None
1430	750	25.50	73	5.09	282.1	0.0475	18.58	5.39	Clear	Clear	None
1435	750	26.00	73.2	4.87	281.5	0.0475	15.79	5.40	Clear	Clear	None
1440	750	25.40	71.7	4.86	282.0	0.0462	12.07	5.40	Clear	Clear	None
1445	750	26.20	70.2	4.65	283.7	0.0455	10.81	5.40	Clear	Clear	None
1450	750	26.00	69.1	3.94	284.5	0.0448	8.96	5.40	Clear	Clear	None
1455	750	25.60	67.2	3.69	286.3	0.0436	9.74	5.40	Clear	Clear	None
1500	750	25.60	66.7	3.75	286.7	0.0429	9.04	5.39	Clear	Clear	None
1505	750	25.40	66.1	3.87	287.2	0.0429	9.43	5.40	Clear	Clear	None
1506	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
40	6000		No								
QA/QC Samples DUP#303									Signature 		



Matrix Environmental Services
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Station Name/Sample ID

OLF-G18

Project

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Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 38.52 feet	Sample Method Low Flow	Sampler S.Meadows	Date 5/9/2019
Well Depth (TOC) 58 feet		Location (Site) LF3	Begin Time 1325
Water Column Thickness 19.48 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 52
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 12.66 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Overcast	Meters YSI Pro Plus Solinst Water Level Meter Geotech Geocontrol PRO	Serial numbers
741.6 feet		Calibration Field 5/9/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 703.08 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1335	0	22.00	130.5	4.69	-77.6	0.0851	14.84	6.27	Clear	Clear	Sulfur-like
1340	750	21.90	130.6	4.14	-84.0	0.0851	11.93	6.27	Clear	Clear	Sulfur-like
1345	750	21.05	130.6	3.32	-113.1	0.0845	11.56	6.27	Clear	Clear	Sulfur-like
1350	750	21.60	130.4	3.47	-115.9	0.0845	11.22	6.26	Clear	Clear	Sulfur-like
1355	750	21.40	130.4	3.20	-120.3	0.0845	10.83	6.27	Clear	Clear	Sulfur-like
1400	750	21.70	130.1	3.09	-124.4	0.0845	10.29	6.26	Clear	Clear	Sulfur-like
1405	750	21.70	130.2	3.02	-123.8	0.0845	10.53	6.26	Clear	Clear	Sulfur-like
1410	750	21.50	130	3.10	-124.1	0.0845	10.28	6.26	Clear	Clear	Sulfur-like
1415	750	21.40	130.1	3.00	-124.9	0.0845	10.11	6.26	Clear	Clear	Sulfur-like
1416	Collect Sample Suite										
Total Time (min.) 40	Total Volume Removed 6000	Well pumped dry (yes/no) No		Notes							

QA/QC Samples

N/A

Signature



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OLF-G20

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	53.28	feet	Sample Method Low Flow	Sampler	S. Meadows	Date	5/7/2019
Well Depth (TOC)	175	feet		Location (Site)	LF3	Begin Time	12:40
Water Column Thickness	121.72	feet	Equipment Geotech Bladder Pump	Laboratory	TestAmerica	Sample Depth	162
Casing Diameter	4	inches		Sample Suite	See COCs		
Casing Volume	79.12	gallons	Weather Conditions	Meters	Serial numbers		
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4				YSI Pro Plus	Solinst Water Level Meter		
741.43		feet	Parameter Stabilization temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	Calibration	Ferrous Iron (Fe II) (mg/L)		
Groundwater Elevation	688.15	feet		Field	N/A		
				5/7/2019	N/A		
				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
1255	0	21.90	744.7	1.49	-14.9	0.4745	2.85	7.02	Clear	Clear	None
1300	650	21.70	729	1.06	-3.9	0.4745	3.57	7.02	Clear	Clear	None
1305	650	21.60	730	1.03	-3.9	0.4745	1.28	7.02	Clear	Clear	None
1310	650	20.80	731	0.88	-6.7	0.4745	1.58	7.02	Clear	Clear	None
1315	650	20.30	728	0.63	-13.7	0.4745	2.13	7.01	Clear	Clear	None
1320	650	20.20	727	0.60	-16.3	0.4745	1.02	7.01	Clear	Clear	None
1325	650	20.40	728	0.61	-19.2	0.4745	0.73	7.01	Clear	Clear	None
1330	650	21.00	725	0.60	-21.9	0.468	0.49	7.01	Clear	Clear	None
1335	650	21.10	724	0.54	-24.2	0.468	0.27	7.01	Clear	Clear	None
1340	650	21.10	723	0.52	-25.1	0.468	0.37	7.01	Clear	Clear	None
1345	650	21.00	724	0.54	-25.8	0.468	0.33	7.01	Clear	Clear	None
1346	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
50	6500										
QA/QC Samples									Signature		
											



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Project

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
63.37		S. Meadows	5/9/2019
		Location (Site)	Begin Time
Well Depth (TOC)		LF3	10:45
175	Equipment	Laboratory	Sample Depth
		TestAmerica	162
Water Column Thickness		Sample Suite	
111.63	Geotech Bladder Pump	See COCs	
	Temperature (°F)	Meters	Serial numbers
Casing Diameter		YSI Pro Plus	
4		Solinst Water Level Meter	
		Geotech Geocontrol PRO	
Casing Volume	Weather Conditions	Calibration	Ferrous Iron (Fe II) (mg/L)
72.56		Field	
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Overcast	5/9/2019	N/A
746.54			
	Parameter Stabilization	Product Observed (yes/no)	Depth to product
Groundwater Elevation		N/A	N/A
683.17	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit		

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1100	0	27.00	337.5	7.26	165.5	0.2191	6.72	6.38	Clear	Clear	None
1105	600	26.60	344.4	5.55	161.7	0.2314	5.82	6.32	Clear	Clear	None
1110	600	26.10	370	3.86	169.8	0.2405	4.82	6.31	Clear	Clear	None
1115	600	27.10	373	3.14	168.9	0.2424	3.40	6.30	Clear	Clear	None
1120	600	28.20	371.9	2.56	169.1	0.2418	3.75	6.29	Clear	Clear	None
1125	600	29.60	374.2	1.87	167.9	0.2438	3.00	6.28	Clear	Clear	None
1130	600	30.10	374.3	1.75	167.0	0.2431	2.84	6.28	Clear	Clear	None
1135	600	30.20	373.6	1.60	164.2	0.2431	3.07	6.28	Clear	Clear	None
1140	600	29.60	373.1	1.58	162.3	0.2424	2.89	6.29	Clear	Clear	None
1145	600	29.10	371.6	1.52	161.7	0.2418	2.21	6.30	Clear	Clear	None
1150	600	28.50	369.2	1.45	160.8	0.2998	2.08	6.30	Clear	Clear	None
1155	600	27.90	367.4	1.46	160.2	0.2386	2.37	6.31	Clear	Clear	None
Total Time (min.) 75	Total Volume Removed 9000		Well pumped dry (yes/no) No			Notes See page 2					
QA/QC Samples N/A									Signature 		



Matrix Environmental Services
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Project

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 60.8 feet	Sample Method Low Flow	Sampler S. Meadows	Date 5/8/2019
Well Depth (TOC) 175 feet		Location (Site) LF3	Begin Time 10:00
Water Column Thickness 114.2 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 162
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 74.23 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions sunny	Meters YSI Pro Plus Solinst Water Level Meter Geotech Geocontrol PRO	Serial numbers
743.89 feet		Calibration Field 5/8/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 683.09 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1020	0	22.30	154.7	4.11	228.9	0.1085	7.12	6.34	Clear	Clear	None
1025	850	22.40	302.5	2.14	202.2	0.1969	5.28	6.12	Clear	Clear	None
1030	850	22.10	329	1.64	191.0	0.2145	6.93	6.11	Clear	Clear	None
1035	850	22.80	341.7	1.53	181.0	0.2217	4.75	6.10	Clear	Clear	None
1040	850	22.40	341.2	1.41	178.9	0.2217	3.06	6.10	Clear	Clear	None
1045	850	22.10	341	1.20	176.9	0.2217	2.45	6.10	Clear	Clear	None
1050	850	22.20	339.1	1.23	178.7	0.221	2.95	6.10	Clear	Clear	None
1055	850	22.20	339.6	1.13	182.7	0.221	1.79	6.10	Clear	Clear	None
1100	850	22.40	339.6	1.13	188.0	0.221	2.05	6.10	Clear	Clear	None
1105	850	22.30	339.6	1.13	188.8	0.2203	2.58	6.09	Clear	Clear	None
1106	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
45	7650		No								
QA/QC Samples N/A									Signature 		



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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
61.39 feet	Low Flow	S.Meadows	5/8/2019
Well Depth (TOC)	Equipment	Location (Site)	Begin Time
95 feet	Geotech Bladder Pump	LF3	1150
Water Column Thickness		Laboratory	Sample Depth
33.61 feet		TestAmerica	87
		Sample Suite	
		See COCs	
Casing Diameter	Temperature (°F)	Meters	Serial numbers
4 inches	80	YSI Pro Plus#2	
Casing Volume	Weather Conditions	Solinst Water Level Meter	
21.85 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	sunny	Geotech Geocontrol PRO	
		Calibration	Ferrous Iron (Fe II) (mg/L)
743.89 feet		Field	
		5/8/2019	N/A
Groundwater Elevation	Parameter Stabilization	Product Observed (yes/no)	Depth to product
682.5 feet	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
1210	0	30.10	58	5.14	238.9	0.0357	56.18	5.57	Clear	Clear	None
1215	750	27.00	48.8	4.37	260.4	0.0319	42.79	5.35	Clear	Clear	None
1220	750	26.50	47.1	2.57	265.6	0.0305	31.61	5.34	Clear	Clear	None
1225	750	26.60	46.8	2.14	267.4	0.0305	36.48	5.34	Clear	Clear	None
1230	750	26.50	46.5	1.98	269.1	0.0299	33.93	5.34	Clear	Clear	None
1235	750	26.00	46.2	2.15	269.5	0.0299	38.95	5.35	Clear	Clear	None
1240	750	26.50	45.7	1.96	269.8	0.0299	41.57	5.35	Clear	Clear	None
1245	750	26.90	44.6	1.85	274.0	0.0293	45.85	5.35	Clear	Clear	None
1250	750	26.90	44.5	1.86	272.8	0.0293	44.09	5.35	Clear	Clear	None
1255	750	26.50	44.3	1.87	273.1	0.0286	43.27	5.36	Clear	Clear	None
1256	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
45	6750		No								
QA/QC Samples									Signature		
N/A											



Matrix Environmental Services
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OLF-G31

Project

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 103.875 feet	Sample Method Low Flow	Sampler s. meadows	Date 5/15/2019
Well Depth (TOC) 225 feet		Location (Site) LF3	Begin Time 1050
Water Column Thickness 121.125 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 215
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 78.73 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI pro plus#2 Solinst Water Level Meter Geotech Geocontrol PRO	Serial numbers
793.69 feet		Calibration Field 5/15/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 689.815 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1100	750	18.20	0.316	5.85	220.3	0.2054	14.84	7.37	Clear	Clear	None
1105	750	18.40	0.321	5.71	216.7	0.2087	14.13	7.38	Clear	Clear	None
1110	750	18.40	0.322	5.46	215.3	0.2093	11.01	7.38	Clear	Clear	None
1115	750	18.40	0.322	5.28	213.6	0.2093	12.10	7.37	Clear	Clear	None
1120	750	18.60	0.322	5.43	212.9	0.2093	11.53	7.36	Clear	Clear	None
1125	750	18.80	0.321	5.11	211.9	0.2087	10.85	7.36	Clear	Clear	None
1130	750	18.80	0.321	5.43	211.6	0.2087	10.43	7.36	Clear	Clear	None
1135	750	18.90	0.321	5.40	211.1	0.2087	10.62	7.36	Clear	Clear	None
1136	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
35	5250		No								
QA/QC Samples DUP#302									Signature 		



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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	110.43	feet	Sample Method	Low Flow	Sampler	S.Meadows	Date	5/14/2019
Well Depth (TOC)	291	feet			Location (Site)	LF3	Begin Time	1455
Water Column Thickness	180.57	feet	Equipment	Geotech Bladder Pump	Laboratory	TestAmerica	Sample Depth	281
					Sample Suite	See COCs		
Casing Diameter	4	inches	Temperature (°F)	80	Meters	Serial numbers		
Casing Volume	117.37	gallons			YSI pro plu			
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4			Weather Conditions	Sunny	Solinst Water Level Meter			
					Geotech Geocontrol PRO			
	793.41	feet	Parameter Stabilization	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	Calibration	Ferrous Iron (Fe II) (mg/L)		
					Field	N/A		
Groundwater Elevation	682.98	feet			5/14/2019	N/A		
					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
1505	750	25.00	0.223	5.30	44.1	0.1456	49.79	7.38	Clear	Clear	None
1510	750	24.80	0.228	5.65	63.7	0.1489	37.63	7.39	Clear	Clear	None
1515	750	24.10	0.233	6.43	68.1	0.154	25.96	7.46	Clear	Clear	None
1520	750	23.60	0.239	5.96	60.1	0.1573	19.36	7.57	Clear	Clear	None
1525	750	23.70	0.247	5.60	62.5	0.1612	18.14	7.62	Clear	Clear	None
1530	750	24.10	0.251	5.49	71.3	0.1631	16.30	7.68	Clear	Clear	None
1535	750	23.90	0.253	5.22	79.2	0.1644	13.95	7.70	Clear	Clear	None
1540	750	24.10	0.255	5.25	88.5	0.1658	11.51	7.71	Clear	Clear	None
1545	750	23.70	0.256	4.94	119.1	0.1658	8.05	7.71	Clear	Clear	None
1550	750	23.80	0.254	4.69	120.3	0.1651	4.42	7.69	Clear	Clear	None
1555	750	24.10	0.254	4.66	121.2	0.1641	3.85	7.68	Clear	Clear	None
1556	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
50	7500		No								
QA/QC Samples									Signature		
N/A											



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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	60.53	feet	Sample Method	Low Flow	Sampler	Jtulley	Date	5/8/2019
Well Depth (TOC)	260	feet			Location (Site)	LF3	Begin Time	12:00
Water Column Thickness	199.47	feet	Equipment	Geotech Bladder Pump	Laboratory	TestAmerica	Sample Depth	250
					Sample Suite	See COCs		
Casing Diameter	4	inches	Temperature (°F)	86	Meters	Serial numbers		
Casing Volume	129.66	gallons			Solinst Water Level Meter			
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4			Weather Conditions	Sunny	Geotech Geocontrol PRO			
					Calibration	Field		
	742.82	feet	Parameter Stabilization	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	5/8/2019		N/A	
Groundwater Elevation	682.29	feet			Product Observed (yes/no)	N/A		Depth to product

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
13:25	0	27.20	98.4	2.47	-61.5	0.0637	15.86	7.05	Clear	Clear	None
13:30	500	27.20	98.3	2.27	-63.6	0.0643	14.06	7.05	Clear	Clear	None
13:35	500	24.60	97.8	1.69	-68.8	0.0637	10.11	7.02	Clear	Clear	None
13:40	500	26.30	98.2	1.48	-72.8	0.0637	12.84	7.01	Clear	Clear	None
13:45	500	26.80	98.5	1.40	-76.6	0.0637	11.01	7.02	Clear	Clear	None
13:50	500	26.60	98.3	1.28	-78.3	0.0637	10.56	6.99	Clear	Clear	None
13:55	500	27.10	98.4	1.26	-80.2	0.0819	9.45	6.98	Clear	Clear	None
14:00	500	26.00	148.4	1.14	-73.5	0.1644	8.71	6.99	Clear	Clear	None
14:05	500	26.20	312.7	1.39	-68.5	0.2165	7.95	7.06	Clear	Clear	None
14:10	500	25.20	409.8	2.39	-34.9	0.2671	8.09	7.13	Clear	Clear	None
14:15	500	25.80	410.3	1.97	-35.1	0.2674	8.55	7.14	Clear	Clear	None
14:20	500	24.70	410.8	1.95	-34.4	0.2678	8.01	7.14	Clear	Clear	None
Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)		Notes							
55	5500	No		14:21 Collected Sample Suite							

QA/QC Samples

N/A

Signature

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Matrix Environmental Services
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OLF-G42

Project

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GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 66.03 feet	Sample Method Low Flow	Sampler S.Meadows	Date 5/13/2019
Well Depth (TOC) 174.5 feet		Location (Site) LF3	Begin Time 14:20
Water Column Thickness 108.47 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 165
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 70.51 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI Pro Plus#2	Serial numbers Solinst Water Level Meter
746.09 feet		Geotech Geocontrol PRO	
Groundwater Elevation 680.06 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
		5/13/2019	
		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
1425	0	25.30	0.478	3.50	42.2	0.312	11.95	7.46	Clear	Clear	None
1430	300	25.40	0.476	2.23	41.8	0.3087	11.72	7.47	Clear	Clear	None
1435	300	24.70	0.476	1.83	49.9	0.3087	10.03	7.47	Clear	Clear	None
1440	300	24.10	0.473	1.56	50.8	0.3068	7.59	7.48	Clear	Clear	None
1445	300	23.60	0.472	1.45	53.3	0.3062	5.85	7.49	Clear	Clear	None
1450	300	23.10	0.471	1.36	60.5	0.3055	7.17	7.50	Clear	Clear	None
1455	300	21.90	0.467	1.28	68.2	0.3042	9.81	7.50	Clear	Clear	None
1500	300	21.10	0.466	1.20	73.3	0.3023	6.97	7.51	Clear	Clear	None
1505	300	20.90	0.465	1.08	78.8	0.3016	8.58	7.51	Clear	Clear	None
1510	300	21.00	0.462	1.06	83.0	0.301	10.72	7.51	Clear	Clear	None
1515	300	20.70	0.461	1.03	85.0	0.2996	9.51	7.52	Clear	Clear	None
1520	300	21.00	0.459	1.06	85.4	0.2977	11.29	7.52	Clear	Clear	None
Total Time (min.) 75	Total Volume Removed 4500	Well pumped dry (yes/no) No				Notes See Page 2					
QA/QC Samples MS/MSD									Signature 		



Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
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Station Name/Sample ID

OLF-G47

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 57.74 feet	Sample Method Low Flow	Sampler Jtulley	Date 5/9/2019
Well Depth (TOC) 322 feet		Location (Site) LF3	Begin Time 8:15
Water Column Thickness 264.26 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 303
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 171.77 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Temperature (°F) 74	Meters YSI Pro Plus	Serial numbers
717.46 feet		Solinst Water Level Meter	
Groundwater Elevation 659.72 feet	Weather Conditions Overcast	Geotech Geocontrol PRO	Calibration Field
		5/9/2019	Ferrous Iron (Fe II) (mg/L) N/A
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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
9:10	0	21.10	55.4	6.12	119.8	0.0357	23.47	6.60	Clear	Clear	None
9:15	750	21.00	54.6	5.35	124.1	0.0357	23.00	6.55	Clear	Clear	None
9:20	750	20.90	55.7	4.19	125.9	0.0364	19.77	6.50	Clear	Clear	None
9:25	750	21.00	369.1	4.47	109.6	0.2412	17.09	7.28	Clear	Clear	None
9:30	750	21.00	376.2	4.57	107.3	0.2424	17.93	7.32	Clear	Clear	None
9:35	750	21.00	383.9	4.48	104.6	0.2496	14.06	7.36	Clear	Clear	None
9:40	750	21.10	387	4.46	104.8	0.2509	15.45	7.38	Clear	Clear	None
9:45	750	21.30	388.1	4.64	102.2	0.2535	14.96	7.38	Clear	Clear	None
9:50	750	21.30	388.4	4.48	101.9	0.2535	16.02	7.39	Clear	Clear	None
9:55	750	21.40	388.8	4.67	101.5	0.2542	15.88	7.39	Clear	Clear	None
9:56	Collected Sample Suite										
	J. E. A.										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
45	6750		No								

QA/QC Samples

N/A

Signature

J. E. A.



Matrix Environmental Services
283 Rucker Street
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Station Name/Sample ID

OLF-G48

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
45.48 feet	Low Flow	Jtulley	5/8/2019
Well Depth (TOC)	Equipment	Location (Site)	Begin Time
405 feet	Geotech Bladder Pump	LF3	8:30
Water Column Thickness		Laboratory	Sample Depth
359.52 feet		TestAmerica	395
		Sample Suite	
		See COCs	
Casing Diameter	Temperature (°F)	Meters	Serial numbers
4 inches	84	YSI Pro Plus	
Casing Volume	Weather Conditions	Solinst Water Level Meter	
233.69 gallons	Sunny	Geotech Geocontrol PRO	
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4		Calibration	Ferrous Iron (Fe II) (mg/L)
		Field	
717.63 feet		5/8/2019	N/A
Groundwater Elevation	Parameter Stabilization	Product Observed (yes/no)	Depth to product
672.15 feet	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
10:45	0	23.40	104.7	2.87	-7.6	0.0682	10.41	6.85	Clear	Clear	None
10:50	600	23.40	104.2	2.66	-9.0	0.0676	10.55	6.83	Clear	Clear	None
10:55	600	23.50	103.6	2.35	-11.4	0.0676	9.46	6.83	Clear	Clear	None
11:00	600	23.80	121.4	1.48	-18.3	0.0787	10.84	6.86	Clear	Clear	None
11:05	600	25.60	138.2	1.12	-20.1	0.0897	9.12	6.96	Clear	Clear	None
11:10	600	25.90	137.8	1.10	-19.4	0.0897	9.99	6.96	Clear	Clear	None
11:15	600	26.20	137.4	1.05	-17.8	0.089	10.41	6.97	Clear	Clear	None
11:20	600	26.90	136.6	1.01	-17.2	0.089	10.04	6.97	Clear	Clear	None
11:25	600	27.00	136.6	0.99	-17.0	0.089	9.54	6.97	Clear	Clear	None
11:30	600	27.10	136.8	0.99	-16.9	0.089	9.29	6.97	Clear	Clear	None
11:31	Collected Sample Suite										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
45	5400	No	Had to pull pump @10:00 not getting water.

QA/QC Samples	Signature
N/A	



Matrix Environmental Services
283 Rucker Street
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Station Name/Sample ID

OLF-G52

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
feet	Low Flow	s.meadows	5/10/2019
Well Depth (TOC)	Equipment	Location (Site)	Begin Time
377.5	Geotech Bladder Pump	LF3	09:30
feet		Laboratory	Sample Depth
Water Column Thickness		TestAmerica	367
377.5		Sample Suite	
feet		See COCs	
Casing Diameter	Temperature (°F)	Meters	Serial numbers
4	80	YSI pro plus#2	
inches		Solinst Water Level Meter	
Casing Volume	Weather Conditions	Geotech Geocontrol PRO	
245.38	Overcast	Calibration	Ferrous Iron (Fe II) (mg/L)
gallons		Field	
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4		5/10/2019	N/A
723.83		Product Observed (yes/no)	Depth to product
feet	Parameter Stabilization	N/A	N/A
Groundwater Elevation	temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit		
723.83			

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0945	400	22.90	431.7	2.16	-205.5	0.2756	23.81	10.12	Clear	Clear	None
0950	400	24.40	361.1	1.92	-192.4	0.2346	46.97	9.21	Clear	Clear	None
0955	400	25.10	367.7	1.91	-187.7	0.2398	61.48	8.87	Clear	Clear	None
1000	400	24.80	374.3	1.55	-179.0	0.2431	48.64	8.71	Clear	Clear	None
1005	400	25.30	375	1.46	-171.7	0.2438	39.65	8.65	Clear	Clear	None
1010	400	30.50	386.7	1.66	-164.9	0.2516	31.97	8.38	Clear	Clear	None
1015	400	29.40	388.5	1.41	-169.2	0.2522	33.17	8.36	Clear	Clear	None
1020	400	28.10	385.8	1.42	-170.9	0.2509	28.93	8.38	Clear	Clear	None
1025	400	30.00	370.5	1.94	-165.6	0.2392	31.97	8.46	Clear	Clear	None
1030	200	29.90	364.1	1.63	-171.5	0.236	31.91	8.61	Clear	Clear	None
1035	200	29.60	355.5	1.55	-174.4	0.2307	30.82	8.78	Clear	Clear	None
1036	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
50	3600		No			low pressure on pump @1030					
QA/QC Samples									Signature		
N/A											



Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
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Station Name/Sample ID

OLF-G70

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 58.65 feet	Sample Method Low Flow	Sampler Jtulley	Date 5/15/2019
Well Depth (TOC) 400 feet		Location (Site) LF3	Begin Time 8:30
Water Column Thickness 341.35 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 295
		Sample Suite See COCs	
Casing Diameter 4 inches	Temperature (°F) 66	Meters YSI Pro Plus	Serial numbers
Casing Volume 221.88 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Solinst Water Level Meter	Geotech Geocontrol PRO
722.11 feet		Calibration Field 5/15/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 663.46 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
9:40	0	21.90	408.2	5.08	81.9	0.2652	4.49	7.49	Clear	Clear	None
9:45	500	21.00	405.1	2.85	75.2	0.2633	2.86	7.51	Clear	Clear	None
9:50	500	21.00	404.9	2.68	74.7	0.2626	3.33	7.51	Clear	Clear	None
9:55	500	20.90	393.8	2.91	74.2	0.2561	2.06	7.55	Clear	Clear	None
10:00	500	21.00	391.2	3.05	75.9	0.2542	2.85	7.56	Clear	Clear	None
10:05	500	20.60	390.1	3.06	78.9	0.2529	3.49	7.58	Clear	Clear	None
10:10	500	20.50	390	3.14	79.0	0.2529	2.98	7.58	Clear	Clear	None
10:15	500	20.70	389.9	3.09	79.2	0.2529	2.52	7.58	Clear	Clear	None
10:16	Collected Sample Suite										
Total Time (min.) 35	Total Volume Removed 3500	Well pumped dry (yes/no) No		Notes							

QA/QC Samples

N/A

Signature



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Station Name/Sample ID

OLF-G72

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) N/A feet	Sample Method FLUTE well purge	Sampler Tulley	Date 5/2/2019
Well Depth (TOC) 245 feet		Location (Site) LF3	Begin Time 8:40
Water Column Thickness N/A feet	Equipment Multi-level Port Well	Laboratory TestAmerica	Sample Depth Sampled from Ports
		Sample Suite See COCs	
Casing Diameter N/A inches	Temperature (°F) 88°	Meters YSI Pro Plus	Serial numbers Solinst Water Level Meter
Casing Volume N/A gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Geotech Geocontrol PRO	
747.03 feet		Calibration Field 5/2/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation N/A 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	

Well Port	Sample Time	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
Port 1	10:20	22.70	1036	1.36	-73.1	0.6760	9.36	6.99	Clear	Clear	None
Port 2	10:45	26.10	1176	0.49	-17.4	0.767	31.65	6.41	Clear	Clear	None
Port 3	10:55	23.50	706	0.42	-105.9	0.4615	2.78	7.50	Clear	Clear	None
Port 4	11:05	20.50	885	0.43	-29.8	0.5785	7.09	6.73	Clear	Clear	None
Port 5	11:25	21.50	459.9	1.15	-57.6	0.299	2.63	7.35	Clear	Clear	None
Port 6	12:00	19.50	461.8	1.55	-61.4	0.3003	2.49	7.54	Clear	Clear	None
Total Time (min.) N/A	Total Volume Removed N/A	Well pumped dry (yes/no) Yes		Notes Water is Sprite like in ports 1, 2, and 4							

QA/QC Samples

Port 1 - MS/MSD

Signature



Matrix Environmental Services
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Station Name/Sample ID

OLF-G75 Screen 1

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 67.19 feet	Sample Method Low Flow	Sampler Jtulley	Date 5/13/2019
Well Depth (TOC) 300.5 feet		Location (Site) LF3	Begin Time 8:15
Water Column Thickness 233.31 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 90
Casing Diameter 2 inches		Sample Suite See COCs	
Casing Volume 37.33 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI Pro Plus	Serial numbers Solinst Water Level Meter
749.89 feet		Geotech Geocontrol PRO	Calibration Field
Groundwater Elevation 682.7 feet	Parameter Stabilization temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit		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
9:15	0	18.80	327.4	8.74	110.9	0.2125	28.18	8.12	Clear	Clear	None
9:20	350	17.80	328.2	9.30	105.0	0.2132	17.41	8.22	Clear	Clear	None
9:25	350	17.80	328.4	9.71	104.6	0.2132	11.09	8.23	Clear	Clear	None
9:30	350	18.20	320.3	10.18	101.6	0.2139	13.84	8.28	Clear	Clear	None
9:35	350	18.00	272.2	10.28	112.5	0.1768	10.55	7.60	Clear	Clear	None
9:40	350	17.90	103.2	11.60	134.5	0.0598	3.00	6.74	Clear	Clear	None
9:45	350	18.20	58.5	10.80	177.1	0.0364	10.44	5.94	Clear	Clear	None
9:50	350	18.40	51.8	9.91	190.7	0.0338	11.01	5.75	Clear	Clear	None
9:55	350	18.50	49.2	9.06	199.5	0.0319	9.41	5.62	Clear	Clear	None
10:00	350	18.50	47.5	8.68	207.6	0.0312	10.55	5.58	Clear	Clear	None
10:05	350	18.60	47.2	8.18	207.5	0.0305	10.06	5.58	Clear	Clear	None
10:10	350	18.60	46.9	7.97	207.3	0.0305	9.89	5.56	Clear	Clear	None
Total Time (min.) 55	Total Volume Removed 3850	Well pumped dry (yes/no) No		Notes 10:11 Collected Sample Suite							

QA/QC Samples

N/A

Signature



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

Station Name/Sample ID

OLF-G75 Screen 2

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 67.19 feet	Sample Method Low Flow	Sampler Jtulley	Date 5/13/2019
Well Depth (TOC) 300.5 feet		Location (Site) LF3	Begin Time 10:40
Water Column Thickness 233.31 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 130
		Sample Suite See COCs	
Casing Diameter 2 inches	Temperature (°F) 72	Meters YSI Pro Plus	Serial numbers
Casing Volume 37.33 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Solinst Water Level Meter Geotech Geocontrol PRO	
749.89 feet		Calibration Field 5/13/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 682.7 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
11:15	0	20.50	48.2	6.84	208.9	0.0344	11.86	5.55	Clear	Clear	None
11:20	450	21.90	294.2	5.88	151.2	0.1917	19.84	6.69	Clear	Clear	None
11:25	450	22.80	404.9	4.93	125.3	0.2639	17.55	7.10	Clear	Clear	None
11:30	450	23.60	411.2	4.84	122.9	0.2678	18.86	7.15	Clear	Clear	None
11:35	450	23.70	412.2	4.76	122.5	0.2678	19.06	7.15	Clear	Clear	None
11:40	450	23.80	414.5	4.85	118.9	0.2691	18.05	7.18	Clear	Clear	None
11:45	450	23.50	413.5	4.76	115.2	0.2685	19.51	7.18	Clear	Clear	None
11:50	450	23.30	413.2	4.87	115.4	0.2685	18.89	7.19	Clear	Clear	None
11:55	450	23.30	413	4.84	114.9	0.2684	19.05	7.18	Clear	Clear	None
11:56											

Total Time (min.) 40	Total Volume Removed 3600	Well pumped dry (yes/no) No	Notes

QA/QC Samples N/A	Signature



Matrix Environmental Services
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Station Name/Sample ID

OLF-G75 Screen 3

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 67.19 feet	Sample Method Low Flow	Sampler Jtulley	Date 5/13/2019
Well Depth (TOC) 300.5 feet		Location (Site) LF3	Begin Time 12:30
Water Column Thickness 233.31 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 170
		Sample Suite See COCs	
Casing Diameter 2 inches	Temperature (°F) 71	Meters YSI Pro Plus	Serial numbers
Casing Volume 37.33 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Solinst Water Level Meter Geotech Geocontrol PRO	
749.89 feet		Calibration Field 5/13/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 682.7 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
13:20	0	22.30	407	7.29	111.5	0.2646	21.84	7.19	Clear	Clear	None
13:25	350	20.30	415.5	5.64	112.4	0.2698	28.75	7.19	Clear	Clear	None
13:30	350	20.10	428.4	5.32	112.0	0.2782	25.14	7.21	Clear	Clear	None
13:35	350	20.40	444.4	4.68	109.6	0.2925	19.09	7.26	Clear	Clear	None
13:40	350	20.10	458	4.52	108.4	0.2977	17.77	7.28	Clear	Clear	None
13:45	350	20.00	470.8	4.09	106.2	0.3055	14.85	7.32	Clear	Clear	None
13:50	350	20.30	477.1	3.65	104.3	0.3107	5.01	7.35	Clear	Clear	None
13:55	350	20.60	480.2	3.40	109.3	0.3127	6.05	7.34	Clear	Clear	None
14:00	350	20.30	484.5	3.07	101.9	0.314	7.55	7.38	Clear	Clear	None
14:05	350	19.90	484.3	2.98	101.8	0.3146	7.06	7.38	Clear	Clear	None
14:10	350	19.90	483.9	3.02	102.1	0.3147	7.24	7.39	Clear	Clear	None
14:11			Collected Sample Suite								
Total Time (min.) 50	Total Volume Removed 3500	Well pumped dry (yes/no) No		Notes							

QA/QC Samples

Dup#319

Signature

[Signature]



Matrix Environmental Services
283 Rucker Street
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Station Name/Sample ID

OLF-G75 Screen 4

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 67.19 feet	Sample Method Low Flow	Sampler Jtulley	Date 5/14/2019
Well Depth (TOC) 300.5 feet		Location (Site) LF3	Begin Time 10:30
Water Column Thickness 233.31 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 210
		Sample Suite See COCs	
Casing Diameter 2 inches	Temperature (°F) 70	Meters YSI Pro Plus	Serial numbers Solinst Water Level Meter
Casing Volume 37.33 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Geotech Geocontrol PRO	
		Calibration Field	Ferrous Iron (Fe II) (mg/L) N/A
		5/14/2019	
Groundwater Elevation 682.7 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
12:15	0	24.20	494.6	5.14	116.0	0.3217	30.85	7.28	Clear	Clear	None
12:20	500	23.60	502.3	3.56	106.0	0.3263	31.86	7.37	Clear	Clear	None
12:25	500	24.60	494.6	4.19	103.8	0.3198	94.87	7.35	Cloudy	Brown	None
12:30	500	26.40	440.2	7.33	114.2	0.2919	187.50	7.21	Cloudy	Brown	None
12:35	500	27.80	498	7.34	105.4	0.325	149.60	7.34	Cloudy	Brown	None
12:40	500	28.00	502	3.32	102.2	0.325	181.40	7.34	Cloudy	Brown	None
12:45	500	28.70	505	2.42	97.4	0.325	183.40	7.35	Cloudy	Brown	None
12:50	500	28.70	504	2.31	96.5	0.325	177.50	7.35	Cloudy	Brown	None
12:55	500	28.60	505	2.32	96.1	0.325	182.40	7.35	Cloudy	Brown	None
12:56											
Collected Sample Suite											
5-14-19											
Total Time (min.) 40	Total Volume Removed 4000	Well pumped dry (yes/no) No		Notes							

QA/QC Samples

N/A

Signature

J. E.



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

Station Name/Sample ID

OLF-G75 Screen 5

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 67.19 feet	Sample Method Low Flow	Sampler Jtulley	Date 5/14/2019
Well Depth (TOC) 300.5 feet		Location (Site) LF3	Begin Time 13:10
Water Column Thickness 233.31 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 250
		Sample Suite See COCs	
Casing Diameter 2 inches	Temperature (°F) 71	Meters YSI Pro Plus	Serial numbers
Casing Volume 37.33 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Solinst Water Level Meter Geotech Geocontrol PRO	
749.89 feet		Calibration Field 5/14/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 682.7 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
13:30	0	22.50	503.2	1.79	92.5	0.327	89.75	7.36	Cloudy	Clear	None
13:35	500	21.70	497	1.66	92.2	0.3231	34.12	7.35	Clear	Clear	None
13:40	500	21.70	498.1	1.50	90.3	0.3237	18.46	7.37	Clear	Clear	None
13:45	500	21.10	497.7	1.47	92.1	0.3237	17.21	7.36	Clear	Clear	None
13:50	500	22.10	498	1.60	92.9	0.3244	18.08	7.37	Clear	Clear	None
13:55	500	22.00	498.2	1.55	93.1	0.3237	17.95	7.37	Clear	Clear	None
14:00	500	21.60	498.3	1.64	93.3	0.3237	17.06	7.37	Clear	Clear	None
14:01	Collected Sample Suite										

Total Time (min.) 30	Total Volume Removed 3000	Well pumped dry (yes/no) No	Notes

QA/QC Samples N/A	Signature



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

Station Name/Sample ID

OLF-G75 Screen 6

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 67.19 feet	Sample Method Low Flow	Sampler Jtulley	Date 5/14/2019
Well Depth (TOC) 300.5 feet		Location (Site) LF3	Begin Time 14:10
Water Column Thickness 233.31 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 290
Casing Diameter 2 inches		Sample Suite See COCs	
Casing Volume 37.33 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI Pro Plus	Serial numbers Solinst Water Level Meter Geotech Geocontrol PRO
749.89 feet		Calibration Field 5/14/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 682.7 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
14:40	0	17.80	498.8	1.67	92.4	0.3237	14.08	7.39	Clear	Clear	None
14:45	500	18.10	497.3	1.68	87.5	0.3231	7.86	7.41	Clear	Clear	None
14:50	500	18.10	496.3	1.68	87.0	0.3231	9.09	7.41	Clear	Clear	None
14:55	500	18.40	497.1	1.63	87.1	0.3231	8.14	7.41	Clear	Clear	None
15:00	500	20.50	501.7	2.18	104.3	0.325	7.41	7.43	Clear	Clear	None
15:05	500	20.60	501.6	2.02	103.3	0.325	8.08	7.43	Clear	Clear	None
15:10	500	20.50	501.2	2.03	103.1	0.3256	7.58	7.43	Clear	Clear	None
15:11	Collected Sample Suite										

Total Time (min.) 30	Total Volume Removed 3000	Well pumped dry (yes/no) No	Notes

QA/QC Samples N/A	Signature



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

Station Name/Sample ID

OLF-G77

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 56.59 feet	Sample Method Low Flow	Sampler S.Meadows	Date 5/6/2019
Well Depth (TOC) 84.5 feet		Location (Site) LF3	Begin Time 1:10
Water Column Thickness 27.91 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 79
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 18.14 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Weather Conditions Sunny	Meters YSI Pro Plus Solinst Water Level Meter Geotech Geocontrol PRO	Serial numbers
747.04 feet		Calibration Field 5/6/2019	Ferrous Iron (Fe II) (mg/L) N/A
Groundwater Elevation 690.45 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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1325	0	22.40	324.5	2.35	134.5	0.2106	13.73	5.91	Clear	Clear	None
1330	500	22.40	322.7	1.81	133.9	0.21	9.47	5.88	Clear	Clear	None
1335	500	22.70	322.7	1.86	134.3	0.21	8.92	5.90	Clear	Clear	None
1340	500	22.40	317.7	1.86	133.9	0.2067	5.79	5.87	Clear	Clear	None
1345	500	22.50	321.5	1.78	133.7	0.2093	7.84	5.87	Clear	Clear	None
1350	500	22.40	323.4	1.78	133.3	0.21	7.91	5.89	Clear	Clear	None
1355	500	22.20	326.5	1.61	131.2	0.2139	8.52	5.90	Clear	Clear	None
1400	500	21.80	327	1.58	131.8	0.2125	8.09	5.90	Clear	Clear	None
1405	500	22.00	326.1	1.59	130.9	0.2119	8.27	5.90	Clear	Clear	None
1406	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
40	4000		No								
QA/QC Samples N/A									Signature 		



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

Station Name/Sample ID

OLF-G78

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 64.23 feet	Sample Method Low Flow	Sampler S.Meadows	Date 5/6/2019
Well Depth (TOC) 85 feet		Location (Site) LF3	Begin Time 12:00
Water Column Thickness 20.77 feet	Equipment Geotech Bladder Pump	Laboratory TestAmerica	Sample Depth 80
Casing Diameter 4 inches		Sample Suite See COCs	
Casing Volume 13.50 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	Temperature (°F) 80	Meters YSI Pro Plus	Serial numbers
748.99 feet		Solinst Water Level Meter	
Groundwater Elevation 684.76 feet	Weather Conditions Sunny	Geotech Geocontrol PRO	
		Calibration Field	Ferrous Iron (Fe II) (mg/L)
		5/6/2019	N/A
	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 (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1210	0	27.30	94	2.64	151.1	0.0611	19.49	5.53	Clear	Clear	None
1215	350	25.70	92.5	2.07	152.8	0.0598	16.95	5.54	Clear	Clear	None
1220	350	25.80	93.2	2.09	154.4	0.0605	17.43	5.52	Clear	Clear	None
1225	350	25.70	95.2	2.19	154.9	0.0618	17.13	5.54	Clear	Clear	None
1230	350	26.10	96.4	2.24	152.9	0.0631	15.96	5.53	Clear	Clear	None
1235	350	26.20	97	2.51	156.3	0.0631	15.32	5.53	Clear	Clear	None
1240	350	26.10	97	2.55	156.0	0.0631	13.46	5.54	Clear	Clear	None
1245	350	26.00	97.1	2.59	155.7	0.0631	13.72	5.53	Clear	Clear	None
1246	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
35	2450		No								
QA/QC Samples N/A									Signature 		



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

Station Name/Sample ID

PPMP-229-GP12

Project

McClellan

Project Number

18.094.19-05.2

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC)	Sample Method	Sampler	Date
26.5 feet			
Well Depth (TOC)	Equipment	Location (Site)	Begin Time
168 feet			
Water Column Thickness	Geotech Bladder Pump	Laboratory	Sample Depth
141.5 feet			
Casing Diameter	Weather Conditions	Meters	Serial numbers
4 inches			
Casing Volume	Sunny	Calibration	Ferrous Iron (Fe II) (mg/L)
91.98 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4			
743.79 feet	Parameter Stabilization	Product Observed (yes/no)	Depth to product
Groundwater Elevation			
717.29 feet	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
1140	800	22.00	0.287	4.72	115.6	0.1865	3.81	10.66	Clear	Clear	None
1145	800	22.50	0.284	6.13	107.6	0.1833	3.60	10.63	Clear	Clear	None
1150	800	20.40	0.277	4.49	101.6	0.1794	3.10	10.68	Clear	Clear	None
1155	800	21.70	0.275	2.33	96.3	0.1787	2.07	10.64	Clear	Clear	None
1200	800	21.80	0.27	1.94	89.8	0.1762	1.45	10.63	Clear	Clear	None
1205	800	21.80	0.269	1.97	82.9	0.1748	1.56	10.61	Clear	Clear	None
1210	800	21.70	0.269	1.99	81.6	0.1742	1.51	10.61	Clear	Clear	None
1215	800	21.70	0.267	1.94	78.3	0.1722	1.47	10.59	Clear	Clear	None
1220	800	22.30	0.262	1.59	72.8	0.1697	2.29	10.56	Clear	Clear	None
1225	800	22.10	0.26	1.56	72.0	0.169	2.17	10.56	Clear	Clear	None
1230	800	22.20	0.255	1.47	69.1	0.1658	2.07	10.54	Clear	Clear	None
1231	Collect Sample Suite										
Total Time (min.)	Total Volume Removed		Well pumped dry (yes/no)			Notes					
50	8000		No								
QA/QC Samples									Signature		
N/A											

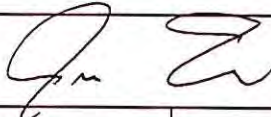
Appendix B
Chain of Custody

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
 Lab Contact Jon Lawhon; Amy Ragnaldsen
 MES Contact Betty Van Pelt
 MES Phone 801-699-1246
 Project Parcel 80(6), Landfill 3
 Task # 18.094.19-05.2.500
 Lab contract: _____

Cooler ID 5543
 Page 1 of 1

Cooler 1 of 3

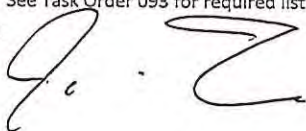
Samplers Signature 

Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis					
							SW9056A Sulfate 1 - 125mL poly, none	SW6010C Sodium (dissolved, lab filtered) 1-250 mL poly, none	SW8260B - VOC 3- 40 mL vials, HCl	RSK-175 -M,E,E 3- 40 mL vials, HCl	SW9060A -TOC 3 - 40 mL amber vials, H2SO4	SW8260B - VOC TB 2- 40 mL vials, HCl
OLF-G71 Port 1	NS	FLUTE	Water	G	11/14/18	1025	X	X	X			
OLF-G71 Port 2	NS	FLUTE	Water	G	11/14/18	1040	X	X	X			
OLF-G71 Port 3	NS	FLUTE	Water	G	11/14/18	1055	X	X	X			
OLF-G71 Port 4	NS	FLUTE	Water	G	11/14/18	1115	X	X	X			
OLF-G71 Port 5	NS	FLUTE	Water	G	11/14/18	1135	X	X	X			
OLF-G72 Port 1	NS	FLUTE	Water	G	11/13/18	1500	X	X	X	X	X	
OLF-G72 Port 1	MS/MSD	FLUTE	Water	G	11/13/18	1500	X	X	X	X	X	
OLF-G72 Port 2	NS	FLUTE	Water	G	11/13/18	1540	X	X	X	X	X	
OLF-G72 Port 3	NS	FLUTE	Water	G	11/13/18	1620	X	X	X	X	X	
OLF-G72 Port 4	NS	FLUTE	Water	G	11/13/18	1645	X	X	X	X	X	
TB# 491	TB	TB	Water	G	11/14/18	1300						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
 Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump
 White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
 Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature):



Date/Time:

11/14/18 1600

Received by (Signature):

Fedex

Relinquished by (Signature):

Date/Time:

Received by (Signature):

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
Lab Contact Jon Lawhon; Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 80(6), Landfill 3
Task # 18.094.19-05.2.500
Lab contract: _____

Cooler ID 5513
Page 1

Cooper 2 of 3

Analysis

Date Collected

Sample Time

SW9056A
Sulfate
1 - 125mL poly, none

SW6010C
Sodium (dissolved, lab
filtered)

SW8260B - VOC
3- 40 mL vials, HCl

RSK-175 -M,E,E
3- 40 mL vials, HCl

SW9060A -TOC
3 - 40 mL amber vials,
H2SO4

SW8260B - VOC TB
2-40 mL vials, HCl

Samplers Signature

[illegible]

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

Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature):

Date/Time:

Received by (Signature):

11/14/18 1600

Fedex

Relinquished by (Signature):

Date/Time:

Received by (Signature):

DUP 305 - OLFG74 Port 1

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Cooler ID 5516 Cooler 3 of 3
Page 1 of

Analysis

Date Collected

Sample Time

SW9056A

1 - 125mL poly, none
sulfate

SW6010C

Sodium (dissolved, lab filtered)
1-250 mL poly, none

SW8260B - VOC

3-40 mL vials, HCl

RSK-175 -M,E,E

- 40 mL vials, HCl

SW9060A -TOC
3 - 40 mL amber vials,

H2SO4

W8260B - VOC TB

Samplers Signature

[illegible]

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

Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

Double the number of bottles for MS/MSD

~~See Task Order 093 for required list of VOCs and metals.~~

Date/Time:

Received by (Signature):

11/14/18 1600

Fedex

DUP 303 - OLF-G20

Date/Time:

Received by (Signature):

DUP 306 - OLF-G77

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory	TestAmerica
Lab Contact	Jon Lawhon; Amy Ragnaldsen
MES Contact	Betty Van Pelt
MES Phone	801-699-1246
Project	Parcel 80(6), Landfill 3
Task #	18.094.19-05.2.500
Lab contract:	

Cooler ID 5489
Page 1 of 1

Analysis

Samplers Signature

[illegible]

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

Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature):

Date/Time: 16/18 1600

Received by (Signature): Fedex

Relinquished by (Signature):

Date/Time:

Received by (Signature):

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory	TestAmerica
Lab Contact	Jon Lawhon; Amy Ragnaldsen
MES Contact	Betty Van Pelt
MES Phone	801-699-1246
Project	Parcel 80(6), Landfill 3
Task #	18.094.19-05.2.500
Lab contract:	

Cooler ID 5547

Page 1 of 1

Analysis

[illegible]

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

Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS:

See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature):

Date/Time:

Received by (Signature):

11/20/18 16:00

Fedex

GLF-G12 # Dup 304

Relinquished by (Signature):

Date/Time:

Received by (Signature):

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory	TestAmerica
Lab Contact	Jon Lawhon; Amy Ragnaldsen
MES Contact	Betty Van Pelt
MES Phone	801-699-1246
Project	Parcel 80(6), Landfill 3
Task #	18.094.19-05.2.500
Lab contract:	

Cooler ID

Page

5529

2 of 2

Analysis

[illegible]

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

Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS:

See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature):

Date/Time:

11/28/14 1600

Received by (Signature):

Fedex

Dup[#] 302 on OLF-G31

Relinquished by (Signature):

Date/Time:

Received by (Signature):

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
Lab Contact Jon Lawhon; Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 80(6), Landfill 3
Task # 18.094.19-05.2.500
Lab contract: _____

Cooler ID 5758 Cooler 2 of 2
Page 1 of 1
Analysis

Samplers Signature

[illegible]

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

Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS: See Task Order 993 for required list of VOCs and metals.

Relinquished by (Signature):

Date/Time:

Received by (Signature):

5-2-19 1600

: Fedex

Relinquished by (Signature):

Date/Time:

Received by (Signature):

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
Lab Contact Jon Lawhon; Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 80(6), Landfill 3
Task # 18.094.19-05.2.500
Lab contract:

Cooler ID 5749 Cooler 1092
Page 1 of 1

Analysis

[illegible]

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

Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Double the number of bottles for MS/MSD

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Date/Time:

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Relinquished by (Signature):

Date/Time:

Received by (Signature):

Dup #322
on OLF-G74 port 3

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory	TestAmerica
Lab Contact	Jon Lawhon; Amy Ragnaldsen
MES Contact	Betty Van Pelt
MES Phone	801-699-1246
Project	Parcel 80(6), Landfill 3
Task #	18.094.19-05.2.500
Lab contract:	

Cooler ID 5781

Cooler 2 of 2

Page 1 of 1

Analysis

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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

Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS:

See Task Order 093 for required list of VOCs and metals.

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Date/Time:

Received by (Signature):

DUP# 323 - 04F-G77

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica

Lab Contact Jon Lawhon; Amy Ragnaldsen

MES Contact Betty Van Pelt

MES Phone 801-699-1246

Project Parcel 80(6), Landfill 3

Task # 18.094.19-05.2.500

Lab contract:

Cooler ID 5780

Page 1 of 1

Cooler 1 of 2

Analysis

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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

Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS:

See Task Order 093 for required list of VOCs and metals.

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Date/Time:

5/8/19 1600

Received by (Signature):

FedEX

Relinquished by (Signature):

Date/Time:

Received by (Signature):

DUP # 320 -OLF-G71 Port 2

Dup # 321 -OLF-G71-Port 1

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica

Lab Contact Jon Lawhon; Amy Ragnaldsen

MES Contact Betty Van Pelt

MES Phone 801-699-1246

Project Parcel 80(6), Landfill 3

Task # 18.094.19-05.2.500

Lab contract:

Cooler ID 5773

Page 1 of j

Analysis

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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

Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

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Date/Time:

Received by (Signature):

Relinquished by (Signature):

Date/Time:

Received by (Signature):

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
 Lab Contact Jon Lawhon; Amy Ragnaldsen
 MES Contact Betty Van Pelt
 MES Phone 801-699-1246
 Project Parcel 80(6), Landfill 3
 Task # 18.094.19-05.2.500
 Lab contract:

Cooler ID 5777
 Page 1 of 1
 Analysis

Samplers Signature						Date Collected	Sample Time	SW9056A Sulfate 1 - 125mL poly, none	SW6010C Sodium (dissolved, lab filtered) 1-250 mL poly, none	SW8260B - VOC 3- 40 mL vials, HCl	RSK-175 - M,E,E 3- 40 mL vials, HCl	SW9060A - TOC 3 - 40 mL amber vials, H2SO4	SW8260B - VOC TB 2- 40 mL vials, HCl
Station ID	QC Code	Station Code	Matrix	Sample Method									
OLF-G75 Screen 1	NS	MW	Water	BP		5/13/19	10:11			X			
OLF-G75 Screen 2						5/13/19	11:56			X			
OLF-G75 Screen 3						5/13/19	14:11			X			
OLF-G75 Screen 4						5/14/19	12:56			X			
OLF-G75 Screen 5						5/14/19	14:01			X			
OLF-G75 Screen 6						5/14/19	15:11			X			
OLF-G70						5/15/19	10:16			X			
OLF-G32						5/14/19	15:56			X			
OLF-G42						5/13/19	15:41			X			
OLF-G42	MS/MSD					5/13/19	15:41			X			
PPMP-229-GP12	NS					5/14/19	12:31			X			
DUK# 319	FD	FD		G		5/13/19	N/A			X			
EB 128	EB	EB		G		5/15/19	12:15	X	X	X	X	X	
MB 098	MB	MB		G		5/15/19	12:00	X	X	X	X	X	
TB 532	TB	TB		G		5/15/19	12:30						X
OLF-G31	NS	MW		BP		5/15/19	11:36			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
 Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump
 White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

COMMENTS: See Task Order 093 for required list of VOCs and metals.

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5/15/19 16:00

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Date/Time:

Received by (Signature):

OLF G75 Screen #3
 is Dup #319

Appendix C
Data Quality Summary

**Data Quality Summary:
Landfill 3, Parcel 80(6) and
Fill Area Northwest of Reilly Airfield, Parcel 229(7)
McClellan, Anniston, Alabama**

November 2018 through May 2019 Sampling Events

Prepared for:



Prepared by:



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Fax (256) 847-0905

August 2019

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LIST OF ABBREVIATIONS AND ACRONYMS

ADEM	Alabama Department of Environmental Management
Army	United States Department of the Army
CA	Cleanup agreement
CCAL	Continuing calibration
CCB	Continuing calibration blank
COC	Chain-of-custody
DI	Deionized
DQO	Data Quality Objective
DQS	Data Quality Summary
EB	Equipment blank
EPA	United States Environmental Protection Agency
ESCA	Environmental Services Cooperative Agreement
ESV	Ecological screening value
FANWR	Fill Area Northwest of Reilly Airfield
FD	Field duplicate
GC/MS	Gas chromatography/mass spectrometry
IC	Ion Chromatography
ICAL	Initial calibration
IDL	Instrument detection limit
IS	Internal standard
IT	IT Corporation
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
McClellan	McClellan, Anniston, Alabama
MDA	McClellan Development Authority
MDL	Method detection limit
MES	Matrix Environmental Services, LLC
MS	Matrix spike
MSD	Matrix spike duplicate
PARCCS	Precision, accuracy, representativeness, completeness, comparability, and sensitivity
PSV (RSL)	Preliminary screening level/Risk-based screening level
QA	Quality assurance
<i>QAP</i>	<i>Quality Assurance Plan</i>
QC	Quality control
%R	Percent recovery
RL	Reporting limit
RBTL	Risk-based target level
RPD	Relative percent difference
RSD	Relative standard deviation
RSL	Regional screening level
SOP	Standard operating procedure
SRM	Standard reference material
TALSAV	TestAmerica Laboratories, Inc, Savannah, Georgia
TB	Trip blank

TDS	Total Dissolved Solids
TOC	Total Organic Carbon
VOC	Volatile Organic Compound

1.0 INTRODUCTION

Matrix Environmental Services, LLC (MES) has prepared this Data Quality Summary (DQS) in support of the Landfill 3, Parcel 80(6) (Landfill 3) and Fill Area Northwest of Reilly Airfield, Parcel 229(7) (FANWR) within McClellan, Anniston, Alabama (McClellan). The sampling events were conducted on behalf of the McClellan Development Authority (MDA). This DQS addresses the data quality review for groundwater samples collected during the November 2018 through May 2019 sampling events. The *Quality Assurance Plan, Revision (QAP)*, (MES, 2005) 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 objectives of the environmental sampling at Landfill 3 and FANWR were to assess the extent of groundwater contamination.

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, total dissolved solids (TDS), dissolved oxygen (DO), and oxidation/reduction potential (ORP) 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, 1993 through 2015) were used to collect definitive level data for Landfill 3 and FANWR. 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 precision, accuracy, representativeness, completeness, comparability, and sensitivity 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 (field duplicate [FD], MSD, or LCSD)

To evaluate precision, the RPDs for MS/MSDs 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.

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 (SRMs) 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, SRMs, or calibration check samples) address the accuracy of the method and/or instrumentation at detecting the target analyte(s) at a certain quantification level and are not considered to be subject to matrix effects.

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:

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

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 all 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 an event are comparable to past and future activities.

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); and not limited to the definition, which describes 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 Preliminary Screening Values (PSVs)/Regional Screening Levels (RSLs) (United States Environmental Protection Agency [USEPA], 2017) due to instrument limitations. Section 6.2 discusses the comparisons between the RSLs and the laboratory RLs and MDLs for this investigation.

2.5 ANALYTICAL SERVICES

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

2.5.1 Analytical Program

The *QAP* lists the EPA analytical methods used to meet definitive data requirements. Based on activities conducted at Landfill 3 and FANWR during the November 2018 and May 2019 sampling events, the methods used to analyze constituents of concern in samples during the investigation were:

- Method SW8260B - VOCs by Gas Chromatography/Mass Spectrometry (GC/MS)
- Method SW8081A - Pesticides by Gas Chromatography (GC)
- Method RSK-175 - Methane, Ethane, and Ethene by GC
- Method /SW6010C - Metals by Inductively Coupled Plasma Atomic Emission Spectrometry
- Method SW7470A - Mercury in Waters by Cold Vapor Atomic Absorption
- Method SW9056A - Anions by Ion Chromatography (IC)
- Method SW9060A - Total Organic Carbon (TOC)

2.5.2 Quality Control

The *QAP* describe the analytical QC requirements. The results of the analytical QC data review for this investigation are presented in Section 5.0.

3.0 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, 2005) and with laboratory standard operating procedures (SOPs). MES performs the second data review to assess compliance with the QA objectives, and to assess hard copy and electronic deliverable consistency and integrity.

3.1 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.

3.1.1 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
E	Result is above the maximum calibration range.
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.
^	Lab flag updated by MES data reviewer.

3.2 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.

3.2.1 Data Review and Validation

MES reviewed the analytical data in accordance with the *QAP* (MES, 2005), analytical methods (EPA, 1993 through 2015), and *USEPA Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review* (EPA, 1999 and 2002 or most current version). 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, and (10) reporting limits.

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)
- Surrogate recoveries (if applicable)
- MS/MSD (5% of client samples)
- LCS/LCSD (one per QC batch)
- Serial dilution (if applicable)
- Post digestions spike (if applicable)
- Internal standards (if applicable)
- Duplicate analyses (laboratory duplicate sample, LCS/LCSD and/or MS/MSD, as applicable)
- Holding times
- Retention time window calculation (if applicable)
- Standard preparation sheets
- Linear range calculations (correlation coefficients)

All data were reviewed for all of the items listed. The results of the review of the chemical data obtained during this investigation are included in Section 5.0.

3.2.2 MES Qualification of Data

Based on the data review, MES assigned final qualifiers to analytical results on both the hard copy results and in the database. The following final qualifiers were 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.

Whenever duplicate sets of results were reported by the laboratory due to re-extractions, re-analyses, or dual column analytical methods, the MES reviewer chose the “most-preferred” results based on the data review. In the “Reportable Result” column shown on the hard copy sample data reports and the database, MES assigned a “Y” flag for the “most-preferred” results, and an “N” flag for the “least-preferred” results. When there was only one set of laboratory reported results, MES assigned a “Y” flag in the “Reportable Result” column. In Section 5.0, only the reportable results (flagged “Y”) are shown in Tables 4-2 to 4-9.

4.0 RESULTS OF QUALITY CONTROL ANALYSES

Table 4-1 lists the samples and analytical methods included in the investigation for Landfill 3 and FANWR. To evaluate the data quality, the results were compared to method requirements and laboratory historical control limits.

Table 4-2 lists the analytical results that were qualified based on the data review process. Table 4-3 summarizes the number of records that were qualified for each analytical method. Based on the information in Tables 4-2 and 4-3, 2 percent of the analytical data were qualified. None of the data were rejected. The results of the data review process are discussed further in the following sections.

4.1 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.

4.1.1 Field Quality Control Procedures and Analyses

Field QC samples included MS/MSD samples, FDs, and trip blanks. The *QAP* was used as guidance to identify the appropriate number of field QC samples, procedures for their collection and analysis, and evaluation of results required for this investigation. The evaluation procedures for the field QC sample analyses are summarized below.

4.1.1.1 Matrix Spike/Matrix Spike Duplicate Samples

MS/MSD samples are investigative samples spiked by the laboratory with known concentrations of target analytes. MS/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/MSD percent recoveries of the concentrations of the target analytes added to the investigative sample. The percent recoveries were then compared

to laboratory historical control limits. When the MS and MSD percent recoveries were outside laboratory historical control limits, the MS/MSD qualifications were used to qualify only the results for the investigative sample used for the MS/MSD. Qualifiers were applied only when both the MS and MSD percent recoveries were outside laboratory historical control limits. Low recoveries in an MS/MSD sample pair 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. The MS/MSD 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 either the MS or MSD or was detected in only one of the samples, an RPD would not be valid, and therefore, was not calculated. Qualifiers were not applied based on MS/MSD RPD values, however, the MS/MSD RPD values were compared to laboratory historical control limits to assess if further evaluation of the data was warranted.

For this investigation, six aqueous MS/MSD samples were collected; three MS or MS/MSDs were analyzed for method SW9060, ten MS/MSDs were analyzed for Method SW9056, six MS/MSDs were analyzed for method SW8260B, two MS/MSDs were analyzed for Method RSK-175, and four MS/MSD each were analyzed for Methods SW6010B. A summary of the MS/MSD percent recovery data is shown in Table 4-4. Results outside criteria are indicated. Data qualified due to MS/MSD recoveries are presented in Table 4-2.

The MS/MSD RPD results are shown in Table 4-4. Four MS/MSD RPD values exceeded the laboratory's historical control limits. Sample results were not qualified based on MS/MSD RPD results. Because greater than 93 percent of the MS/MSD RPD results were within the laboratory control limits, the overall variability of the precision measurements is considered to be acceptable. Results outside criteria are indicated.

4.1.1.2 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 were 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.

Twenty-three FD samples were collected for this investigation. Table 4-5 lists the original station names 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 4-6 shows the RPDs calculated for the investigative and FD sample pairs. The criterion of 50 percent for aqueous samples was used to assess if further evaluation of the data was warranted. All RPDs met criterion, with seven exceptions. Four of the RPDs outside criteria have the sample concentrations not greater than five times the reporting limit in either sample. Therefore, the overall variability of the precision measurements is considered to be acceptable.

4.1.1.3 Trip Blank and Equipment Blank Analyses

Trip blanks (TBs) are used to assess the potential introduction of contaminants from sample containers or during the sampling, transportation, and storage procedures (MES, 2005). A TB sample consists of VOC sample vials filled in the laboratory with ASTM 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 concentration are considered non-detects at the reporting limit. Affected sample results greater than the reporting limit and less than five times the blank are considered non-detects at the concentration observed in the sample. There were 12 TBs used for this investigation. Detections are presented in Table 4-9. Data qualified are presented in Table 4-2. Samples OLF-G72-Port1, OLF-G72-Port4, OLF-G72-Port5, and OLF-G72-Port6 sampled May 2, 2019 were qualified based on TBs (TB527 and TB528) detections. Acetone was not detected in the samples associated with TB532.

Equipment blanks (EBs) are used to assess the effectiveness of equipment decontamination procedures. One EB per sampling team was collected per event and analyzed for the same laboratory analyses requested for the associated investigative samples collected during that same event. EBs were not collected if dedicated equipment or disposable equipment were used for sampling. Two equipment blanks were collected. Analytes detected in EBs are presented in Table 4-9. Requested analytes were not detected in EBs. No samples collected following the EBs; no data qualified based on EBs.

4.1.2 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 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.

4.1.2.1 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. Sample anomalies were documented on the Sample Receipt Form. 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 met 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.

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.

4.1.2.2 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. All holding times met criteria with the following exceptions.

4.1.2.3 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 percent recoveries and RPDs are used to determine laboratory accuracy and precision, respectively. The formulas used to calculate the percent recoveries and RPDs are presented in Section 2.3. The percent recoveries and RPDs were then compared to laboratory historical control limits. When the LCS and LCSD percent recoveries 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 percent recoveries were 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 this investigation, MES reviewed the LCS/LCSD percent recoveries and RPDs for Methods SW9056, SW9060, SW6010B, SW7470A, RSK-175, SW8081A, and SW8260B.

Table 4-7 shows the LCS/LCSD percent recovery and RPD data. The LCS or LCSD percent recoveries were within the laboratory historical control limits with some exceptions. There were 22 LCS, 21 LCSD, and 5 RPDs outside acceptance criteria are indicated. Data qualified based on LCS and LCSD recoveries are presented in Table 4-2.

Greater than 99 percent of the LCS/LCSD recoveries and RPD results were within the laboratory control limits, therefore, the overall variability of the precision measurements is considered to be acceptable.

4.1.2.4 Method Blank and Continuing Calibration 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 this investigation, method blanks were prepared and analyzed with each analytical batch for Methods SW9056, SW9060, SW6010B, SW7470A, RSK-175, SW8081A, and SW8260B.

Continuing calibration blanks (CCBs) are used to check the instrument calibration and level of background interferences. CCBs are prepared by acidifying reagent water to the same concentrations of the acids used in the calibration standards and investigative samples. For this investigation, CCBs were analyzed for Methods SW9056, SW9060, SW6010B, and SW7470A to evaluate if analytes detected in the CCBs impacted the concentrations of the associated samples.

The following qualifications are used when blank contamination is suspected:

- When an organic target analyte was detected in the sample and associated method blank, affected sample results with concentrations less than five times the blank concentration (ten times for common laboratory contaminants acetone, methylene chloride, and 2-butanone [VOCs], and phthalate esters [SVOCs]) were qualified as non-detect (UB) at the reporting limit (when the sample concentration was less than the reporting limit) or qualified as non-detect (UB) at the concentration observed in the sample (when the sample concentration was greater than the reporting limit).
- When an inorganic target analyte was detected in the sample and associated method blank, if the method blank result was above the MDL but below the RL, no qualifiers were required. When the method blank result was above the RL, associated sample results above the MDL but below the RL were qualified as non-detect (UB) at the RL, and associated sample results above the RL but below ten times the blank concentration were qualified as estimated (JB).
- When an inorganic target analyte was detected in the sample and associated continuing calibration blank (CCB), affected sample results with concentrations greater than the MDL but less than or equal to the RL were qualified as non-detect (UB) at the RL; associated sample results with concentrations greater than the RL but less than 5x the blank concentration were qualified as non-detect (UB) at the sample concentration; for sample results with concentrations greater than the RL and greater than 5x the blank concentration, no qualifiers were required.
- When an inorganic target analyte was reported as a negative concentration in the associated method and/or continuing calibration blank, affected sample detects with concentrations less than five times the absolute value in the associated blank were qualified as estimated (J-) and may be biased low, and affected sample non-detects were qualified as estimated (UJ-) and may be potential false negatives.

Data qualified based on blanks are presented in Table 4-2. Analytes detected in blanks are presented in Table 4-9.

4.1.2.5 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 (JS) and may be biased low, and non-detects were qualified as estimated (UJS) 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 (JS) and may be biased high. No qualifiers were required for non-detect results based on high surrogate recoveries.

A summary of the surrogate percent recovery data is provided in Table 4-8. All surrogate recoveries met acceptance criteria. No qualifiers were required for sample results based on surrogate recoveries.

4.1.2.6 Internal Standards

Adherence to method-specific internal standards (ISs) criteria ensures that GC/MS sensitivity and response are stable during each analysis. *SW-846* 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, 2005).

For sample results affected by IS area counts less than the lower control limit, detects and non-detects were qualified as estimated (JA and UJA, respectively). For sample results affected by IS area counts greater than the upper control limit, detects were qualified as estimated (JA). No qualifiers were required for non-detect results based on high IS area counts. For sample results affected by extremely low IS area counts, detects were qualified as estimated (JA) and non-detects were rejected (RA). No qualifiers were required for samples based on the IS data.

4.1.2.7 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 based on the CCAL relative response factor (RRF) compared to the ICAL RRF, and the check of the percent recovery or percent difference between the concentration of the CCAL standard and the expected concentration.

No qualifiers were required for sample results based on the calibration data.

4.2 SUMMARY OF DATA QUALITY INDICATORS

4.2.1 Precision

As discussed in Section 2.3, the precision evaluation included field precision (FDs), laboratory precision (LCS/LCSDs), and combined field/laboratory precision (MS/MSD samples). 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.

4.2.2 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). 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 of this report, respectively. 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 except as noted. The accuracy of sample results can also be affected by holding time violations discussed in Section 5.1.2.2. The investigative sample results were within the required holding time limits except as noted. Based on this evaluation, the accuracy of the data is acceptable for its intended use.

4.2.3 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 towards 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.

4.2.4 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, 2004), a completeness goal of 95 percent was established for investigations. Of the 33579 investigative and field duplicate sample results from the investigation, none of the results were qualified as rejected based on MES' review of the data. Therefore a completeness of 100 percent was

calculated for the investigation, which exceeds project goals. One hundred percent of the results are usable or usable as qualified and are acceptable for their intended use.

4.2.5 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.

5.0 REPORTING LIMITS AND DATA USES

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

5.1 LABORATORY REPORTING LIMITS

EMAX and TALSAV confirm 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 RL 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 RL 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 RL. For detections in the concentration range between the MDL and the RL, the laboratory is confident of the analyte identification and detection but can only estimate the analyte concentration.

5.2 COMPARISON OF LABORATORY REPORTING LIMITS TO RSLs AND RBTLs

For this assessment, the RSLs and RBTLs were compared to the laboratory RLs and MDLs. Table 5-1 shows a summary of the RLs and MDLs compared to RSLs and RBTLs. The laboratory RLs and MDLs were equal to or lower than the RSLs with the exception of a few analytes as shown in Table 5-1. However, in all cases the RLs and MDLs for the COCs and ancillary COCs are lower than the risk-based target levels (RBTLs) / groundwater protection standards (ADEM, 2014).

6.0 CONCLUSIONS

This DQS presents in specific terms the QA and QC practices used to achieve the project objectives for the Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7) investigations. Samples were also 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.

Several of the quality issues addressed in Section 5.0 of this report resulted in qualification of investigative sample results. The data were acceptable with the following qualifications:

- Eight sample results were qualified as estimated detect (J) or non-detect (UJ) because of MS and MSD percent recovery data that were outside laboratory historical control limits (Table 4-4).
- Fifty-two analytes (one sample) were qualified as estimated detect (J) or non-detect (UJ) because of the presence of bubbles greater than six millimeters in all of the sample bottles received. The bottle with the smallest bubble was analyzed.
- Thirty-three analytes were qualified as estimated detect (J) or non-detect (UJ) because LCS and/or LCSD percent recovery data were outside laboratory historical control limits (Table 4-7).
- Four sample results were qualified due to trip blank detections. This resulted in the qualification of sample results as non-detect at the RL or sample concentration (UB).

Based on this review, the analytical data generated for these sampling events are adequate to fulfill program objectives and may be used to evaluate the implementation and performance of groundwater corrective measures.

7.0 REFERENCES

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TABLES

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G07	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-29	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G07	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-29	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G07	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-29	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G07	MSD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-29 MSD	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G07	MSD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-29 MSD	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G07	MSD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-29 MSD	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G07	MS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-29 MS	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G07	MS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-29 MS	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G07	MS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-29 MS	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G08	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-13	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G08	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-13	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G20	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-28	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G20	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-28	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G20	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-28	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G20	FD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-30	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G20	FD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-30	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G20	FD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-30	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT1	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-1	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT1	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-1	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT1	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-1	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT1	LD	WG	11/14/2018	TALSAV	680-160798-1	680-160798-1 DU	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT2	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-2	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT2	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-2	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT2	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-2	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT3	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-3	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT3	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-3	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT3	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-3	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT4	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-4	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT4	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-4	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT4	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-4	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT5	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-5	SW6010C

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT5	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-5	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT5	NS	WG	11/14/2018	TALSAV	680-160798-1	680-160798-5	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MSD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6 MSD	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MSD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6 MSD	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MSD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6 MSD	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MSD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6 MSD	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MSD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6 MSD	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6 MS	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6 MS	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6 MS	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6 MS	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-6 MS	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-7	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-7	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-7	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-7	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-7	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT3	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-8	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT3	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-8	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT3	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-8	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT3	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-8	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT3	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-8	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT4	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-9	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT4	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-9	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT4	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-9	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT4	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-9	SW9060A

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT4	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-9	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT5	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-12	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT5	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-12	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT5	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-12	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT5	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-12	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT5	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-12	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT5	LD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-12 DU	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT6	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-11	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT6	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-11	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT6	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-11	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT6	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-11	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT6	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-11	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT1	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-22	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT1	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-22	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT1	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-22	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT1	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-22	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT1	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-22	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT1	LD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-22 DU	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-23	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-23	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-23	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-23	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-23	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	MSD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-23 MSD	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	MS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-23 MS	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT3	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-24	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT3	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-24	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT3	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-24	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT3	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-24	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT3	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-24	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-25	SW6010C

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-25	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-25	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-25	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-25	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-26	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-26	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-26	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-26	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-26	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-14	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-14	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-14	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-14	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	FD	WG	11/12/2018	TALSAV	680-160798-1	680-160798-19	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	FD	WG	11/12/2018	TALSAV	680-160798-1	680-160798-19	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	FD	WG	11/12/2018	TALSAV	680-160798-1	680-160798-19	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	FD	WG	11/12/2018	TALSAV	680-160798-1	680-160798-19	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	FD	WG	11/12/2018	TALSAV	680-160798-1	680-160798-19	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-15	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-15	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-15	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-15	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT3	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-16	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT3	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-16	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT3	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-16	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT3	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-16	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT4	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-17	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT4	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-17	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT4	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-17	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT4	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-17	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT5	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-18	SW6010C

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT5	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-18	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT5	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-18	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT5	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-18	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G77	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-27	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G77	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-27	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G77	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-27	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G77	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-27	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G77	NS	WG	11/13/2018	TALSAV	680-160798-1	680-160798-27	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G77	FD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-31	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G77	FD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-31	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G77	FD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-31	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G77	FD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-31	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G77	FD	WG	11/13/2018	TALSAV	680-160798-1	680-160798-31	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G78	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-20	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G78	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-20	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G78	NS	WG	11/12/2018	TALSAV	680-160798-1	680-160798-20	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G23	NS	WG	11/15/2018	TALSAV	680-160919-1	680-160919-5	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G23	NS	WG	11/15/2018	TALSAV	680-160919-1	680-160919-5	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G23	NS	WG	11/15/2018	TALSAV	680-160919-1	680-160919-5	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G23	LD	WG	11/15/2018	TALSAV	680-160919-1	680-160919-5 DU	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G24	NS	WG	11/15/2018	TALSAV	680-160919-1	680-160919-3	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G24	NS	WG	11/15/2018	TALSAV	680-160919-1	680-160919-3	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G24	NS	WG	11/15/2018	TALSAV	680-160919-1	680-160919-3	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G35	NS	WG	11/15/2018	TALSAV	680-160919-1	680-160919-4	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G35	NS	WG	11/15/2018	TALSAV	680-160919-1	680-160919-4	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G35	NS	WG	11/15/2018	TALSAV	680-160919-1	680-160919-4	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G48	NS	WG	11/15/2018	TALSAV	680-160919-1	680-160919-2	SW8260B
PARCEL 80(6), LANDFILL 3	PPMP-229-GP12	NS	WG	11/14/2018	TALSAV	680-160919-1	680-160919-1	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G12	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-2	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G12	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-2	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G12	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-2	SW9056A

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G12	MSD	WG	11/19/2018	TALSAV	680-161061-1	680-161061-8 MSD	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G12	MS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-8 MS	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G12	LD	WG	11/19/2018	TALSAV	680-161061-1	680-161061-2 DU	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G12	FD	WG	11/19/2018	TALSAV	680-161061-1	680-161061-8	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G12	FD	WG	11/19/2018	TALSAV	680-161061-1	680-161061-8	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G12	FD	WG	11/19/2018	TALSAV	680-161061-1	680-161061-8	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G18	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-3	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G21	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-1	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G33	NS	WG	11/20/2018	TALSAV	680-161061-1	680-161061-6	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G33	NS	WG	11/20/2018	TALSAV	680-161061-1	680-161061-6	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G33	NS	WG	11/20/2018	TALSAV	680-161061-1	680-161061-6	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G33	LD	WG	11/20/2018	TALSAV	680-161061-1	680-161061-6 DU	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G34	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-4	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G34	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-4	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G34	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-4	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G36	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-5	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G36	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-5	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G36	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-5	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G36	MSD	WG	11/19/2018	TALSAV	680-161061-1	680-161061-5 MSD	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G36	MS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-5 MS	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G42	NS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-7	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G42	MSD	WG	11/19/2018	TALSAV	680-161061-1	680-161061-7 MSD	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G42	MS	WG	11/19/2018	TALSAV	680-161061-1	680-161061-7 MS	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G52	NS	WG	11/20/2018	TALSAV	680-161061-1	680-161061-10	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G22	NS	WG	11/27/2018	TALSAV	680-161411-1	680-161411-9	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G22	NS	WG	11/27/2018	TALSAV	680-161411-1	680-161411-9	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G22	NS	WG	11/27/2018	TALSAV	680-161411-1	680-161411-9	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G31	NS	WG	11/26/2018	TALSAV	680-161411-1	680-161411-7	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G31	FD	WG	11/26/2018	TALSAV	680-161411-1	680-161411-12	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G32	NS	WG	11/26/2018	TALSAV	680-161411-1	680-161411-8	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G47	NS	WG	11/28/2018	TALSAV	680-161411-1	680-161411-10	SW8260B

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G70	NS	WG	11/26/2018	TALSAV	680-161411-1	680-161411-11	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S1	NS	WG	11/26/2018	TALSAV	680-161411-1	680-161411-1	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S2	NS	WG	11/26/2018	TALSAV	680-161411-1	680-161411-2	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S3	NS	WG	11/26/2018	TALSAV	680-161411-1	680-161411-3	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S4	NS	WG	11/27/2018	TALSAV	680-161411-1	680-161411-4	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S5	NS	WG	11/27/2018	TALSAV	680-161411-1	680-161411-5	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S6	NS	WG	11/27/2018	TALSAV	680-161411-1	680-161411-6	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MSD	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1 MSD	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MSD	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1 MSD	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MSD	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1 MSD	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MSD	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1 MSD	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MSD	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1 MSD	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1 MS	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1 MS	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1 MS	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1 MS	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT1	MS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-1 MS	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-2	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-2	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-2	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-2	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-2	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	MSD	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-2 MSD	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT2	MS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-2 MS	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT3	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-3	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT3	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-3	SW8260B

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT3	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-3	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT3	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-3	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT3	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-3	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT3	LD	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-3 DU	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT4	NS	WG	5/2/2019	TALSAV	680-168493-1,- 2	680-168493-4	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT4	NS	WG	5/2/2019	TALSAV	680-168493-1,- 2	680-168493-4	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT4	NS	WG	5/2/2019	TALSAV	680-168493-1,- 2	680-168493-4	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT4	NS	WG	5/2/2019	TALSAV	680-168493-1,- 2	680-168493-4	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT4	NS	WG	5/2/2019	TALSAV	680-168493-1,- 2	680-168493-4	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT5	NS	WG	5/2/2019	TALSAV	680-168493-1,- 2	680-168493-5	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT5	NS	WG	5/2/2019	TALSAV	680-168493-1,- 2	680-168493-5	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT5	NS	WG	5/2/2019	TALSAV	680-168493-1,- 2	680-168493-5	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT5	NS	WG	5/2/2019	TALSAV	680-168493-1,- 2	680-168493-5	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT5	NS	WG	5/2/2019	TALSAV	680-168493-1,- 2	680-168493-5	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT6	NS	WG	5/2/2019	TALSAV	680-168493-1,- 2	680-168493-6	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT6	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-6	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT6	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-6	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT6	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-6	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G72-PORT6	NS	WG	5/2/2019	TALSAV	680-168493-1,-	680-168493-6	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT1	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-10	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT1	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-10	SW8260B

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT1	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-10	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT1	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-10	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT1	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-10	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-11	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-11	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-11	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-11	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT2	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-11	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT3	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-12	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT3	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-12	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT3	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-12	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT3	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-12	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT3	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-12	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-13	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-13	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-13	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-13	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-13	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	MSD	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-13 MSD	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT4	MS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-13 MS	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-14	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-14	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-14	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-14	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-14	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	MSD	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-14 MSD	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G73-PORT5	MS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-14 MS	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-15	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-15	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-15	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-15	SW9060A

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT1	LD	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-15 DU	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-16	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-16	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-16	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-16	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	FD	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-8	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	FD	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-8	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	FD	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-8	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT2	FD	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-8	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT3	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-17	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT3	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-17	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT3	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-17	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT3	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-17	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT4	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-18	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT4	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-18	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT4	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-18	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT4	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-18	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT5	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-19	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT5	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-19	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT5	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-19	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G74-PORT5	NS	WG	5/1/2019	TALSAV	680-168493-1,-	680-168493-19	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G23	NS	WG	5/8/2019	TALSAV	680-168798-1	680-168798-3	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G23	NS	WG	5/8/2019	TALSAV	680-168798-1	680-168798-3	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G23	NS	WG	5/8/2019	TALSAV	680-168798-1	680-168798-3	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G24	NS	WG	5/8/2019	TALSAV	680-168798-1	680-168798-4	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G24	NS	WG	5/8/2019	TALSAV	680-168798-1	680-168798-4	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G24	NS	WG	5/8/2019	TALSAV	680-168798-1	680-168798-4	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G35	NS	WG	5/8/2019	TALSAV	680-168798-1	680-168798-2	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G35	NS	WG	5/8/2019	TALSAV	680-168798-1	680-168798-2	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G35	NS	WG	5/8/2019	TALSAV	680-168798-1	680-168798-2	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G35	LD	WG	5/8/2019	TALSAV	680-168798-1	680-168798-2 DU	SW9056A

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G48	NS	WG	5/8/2019	TALSAV	680-168798-1	680-168798-1	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT1	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-9	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT1	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-9	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT1	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-9	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT1	FD	WG	5/6/2019	TALSAV	680-168798-1	680-168798-7	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT1	FD	WG	5/6/2019	TALSAV	680-168798-1	680-168798-7	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT1	FD	WG	5/6/2019	TALSAV	680-168798-1	680-168798-7	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT2	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-6	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT2	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-6	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT2	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-6	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT2	LD	WG	5/6/2019	TALSAV	680-168798-1	680-168798-11 DU	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT2	FD	WG	5/6/2019	TALSAV	680-168798-1	680-168798-11	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT2	FD	WG	5/6/2019	TALSAV	680-168798-1	680-168798-11	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT2	FD	WG	5/6/2019	TALSAV	680-168798-1	680-168798-11	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT3	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-10	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT3	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-10	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT3	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-10	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT4	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-5	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT4	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-5	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT4	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-5	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT5	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-8	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT5	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-8	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G71-PORT5	NS	WG	5/6/2019	TALSAV	680-168798-1	680-168798-8	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G06	NS	WG	5/6/2019	TALSAV	680-168800-1	680-168800-7	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G06	NS	WG	5/6/2019	TALSAV	680-168800-1	680-168800-7	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G07	NS	WG	5/7/2019	TALSAV	680-168800-1	680-168800-2	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G07	NS	WG	5/7/2019	TALSAV	680-168800-1	680-168800-2	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G07	NS	WG	5/7/2019	TALSAV	680-168800-1	680-168800-2	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G07	MSD	WG	5/7/2019	TALSAV	680-168800-1	680-168800-2 MSD	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G07	MSD	WG	5/7/2019	TALSAV	680-168800-1	680-168800-2 MSD	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G07	MSD	WG	5/7/2019	TALSAV	680-168800-1	680-168800-2 MSD	SW9056A

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G07	MS	WG	5/7/2019	TALSAV	680-168800-1	680-168800-2 MS	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G07	MS	WG	5/7/2019	TALSAV	680-168800-1	680-168800-2 MS	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G07	MS	WG	5/7/2019	TALSAV	680-168800-1	680-168800-2 MS	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G08	NS	WG	5/7/2019	TALSAV	680-168800-1	680-168800-4	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G08	NS	WG	5/7/2019	TALSAV	680-168800-1	680-168800-4	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G20	NS	WG	5/7/2019	TALSAV	680-168800-1	680-168800-5	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G20	NS	WG	5/7/2019	TALSAV	680-168800-1	680-168800-5	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G20	NS	WG	5/7/2019	TALSAV	680-168800-1	680-168800-5	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G77	NS	WG	5/6/2019	TALSAV	680-168800-1	680-168800-3	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G77	NS	WG	5/6/2019	TALSAV	680-168800-1	680-168800-3	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G77	NS	WG	5/6/2019	TALSAV	680-168800-1	680-168800-3	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G77	NS	WG	5/6/2019	TALSAV	680-168800-1	680-168800-3	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G77	NS	WG	5/6/2019	TALSAV	680-168800-1	680-168800-3	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G77	FD	WG	5/6/2019	TALSAV	680-168800-1	680-168800-6	RSK-175
PARCEL 80(6), LANDFILL 3	OLF-G77	FD	WG	5/6/2019	TALSAV	680-168800-1	680-168800-6	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G77	FD	WG	5/6/2019	TALSAV	680-168800-1	680-168800-6	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G77	FD	WG	5/6/2019	TALSAV	680-168800-1	680-168800-6	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G77	FD	WG	5/6/2019	TALSAV	680-168800-1	680-168800-6	SW9060A
PARCEL 80(6), LANDFILL 3	OLF-G78	NS	WG	5/6/2019	TALSAV	680-168800-1	680-168800-1	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G78	NS	WG	5/6/2019	TALSAV	680-168800-1	680-168800-1	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G78	NS	WG	5/6/2019	TALSAV	680-168800-1	680-168800-1	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G12	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-6	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G12	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-6	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G12	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-6	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G18	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-7	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G21	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-3	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G22	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-1	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G22	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-1	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G22	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-1	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G22	MSD	WG	5/9/2019	TALSAV	680-168929-1	680-168929-1 MSD	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G22	MS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-1 MS	SW9056A

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 80(6), LANDFILL 3	OLF-G36	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-2	SW6010C
PARCEL 80(6), LANDFILL 3	OLF-G36	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-2	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G36	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-2	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G36	LD	WG	5/9/2019	TALSAV	680-168929-1	680-168929-2 DU	SW9056A
PARCEL 80(6), LANDFILL 3	OLF-G47	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-5	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G52	NS	WG	5/9/2019	TALSAV	680-168929-1	680-168929-4	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G31	NS	WG	5/15/2019	TALSAV	680-169087-1	680-169087-15	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G32	NS	WG	5/14/2019	TALSAV	680-169087-1	680-169087-8	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G42	NS	WG	5/13/2019	TALSAV	680-169087-1	680-169087-9	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G42	MSD	WG	5/13/2019	TALSAV	680-169087-1	680-169087-9 MSD	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G42	MS	WG	5/13/2019	TALSAV	680-169087-1	680-169087-9 MS	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G70	NS	WG	5/15/2019	TALSAV	680-169087-1	680-169087-7	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S1	NS	WG	5/13/2019	TALSAV	680-169087-1	680-169087-1	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S2	NS	WG	5/13/2019	TALSAV	680-169087-1	680-169087-2	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S3	NS	WG	5/13/2019	TALSAV	680-169087-1	680-169087-3	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S3	FD	WG	5/13/2019	TALSAV	680-169087-1	680-169087-11	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S4	NS	WG	5/14/2019	TALSAV	680-169087-1	680-169087-4	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S5	NS	WG	5/14/2019	TALSAV	680-169087-1	680-169087-5	SW8260B
PARCEL 80(6), LANDFILL 3	OLF-G75-S6	NS	WG	5/14/2019	TALSAV	680-169087-1	680-169087-6	SW8260B
PARCEL 80(6), LANDFILL 3	PPMP-229-GP12	NS	WG	5/14/2019	TALSAV	680-169087-1	680-169087-10	SW8260B
MCCLELLAN FIELD QC	TRIP BLANK (TB491)	TB	W	11/14/2018	TALSAV	680-160798-1	680-160798-10	SW8260B
MCCLELLAN FIELD QC	TRIP BLANK (TB492)	TB	W	11/14/2001	TALSAV	680-160798-1	680-160798-21	SW8260B
MCCLELLAN FIELD QC	TRIP BLANK (TB493)	TB	W	11/14/2018	TALSAV	680-160798-1	680-160798-32	SW8260B
MCCLELLAN FIELD QC	TRIP BLANK (TB494)	TB	W	11/16/2018	TALSAV	680-160919-1	680-160919-6	SW8260B
MCCLELLAN FIELD QC	TRIP BLANK (TB495)	TB	W	11/20/2018	TALSAV	680-161061-1	680-161061-9	SW8260B
MCCLELLAN FIELD QC	EQUIPMENT BLANK	LD	W	11/28/2018	TALSAV	680-161411-1	680-161411-14 DU	SW9056A
MCCLELLAN FIELD QC	EQUIPMENT BLANK	EB	W	11/28/2018	TALSAV	680-161411-1	680-161411-14	RSK-175
MCCLELLAN FIELD QC	EQUIPMENT BLANK	EB	W	11/28/2018	TALSAV	680-161411-1	680-161411-14	SW6010C
MCCLELLAN FIELD QC	EQUIPMENT BLANK	EB	W	11/28/2018	TALSAV	680-161411-1	680-161411-14	SW8260B
MCCLELLAN FIELD QC	EQUIPMENT BLANK	EB	W	11/28/2018	TALSAV	680-161411-1	680-161411-14	SW9056A
MCCLELLAN FIELD QC	EQUIPMENT BLANK	EB	W	11/28/2018	TALSAV	680-161411-1	680-161411-14	SW9060A

Table 4-1: Sample Index
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
MCCLELLAN FIELD QC	MATERIAL BLANK	WS	W	11/28/2018	TALSAV	680-161411-1	680-161411-13	RSK-175
MCCLELLAN FIELD QC	MATERIAL BLANK	WS	W	11/28/2018	TALSAV	680-161411-1	680-161411-13	SW6010C
MCCLELLAN FIELD QC	MATERIAL BLANK	WS	W	11/28/2018	TALSAV	680-161411-1	680-161411-13	SW8260B
MCCLELLAN FIELD QC	MATERIAL BLANK	WS	W	11/28/2018	TALSAV	680-161411-1	680-161411-13	SW9056A
MCCLELLAN FIELD QC	MATERIAL BLANK	WS	W	11/28/2018	TALSAV	680-161411-1	680-161411-13	SW9060A
MCCLELLAN FIELD QC	TRIP BLANK (TB496)	TB	W	11/28/2018	TALSAV	680-161411-1	680-161411-15	SW8260B
MCCLELLAN FIELD QC	TRIP BLANK (TB527)	TB	W	5/2/2019	TALSAV	680-168493-1,-	680-168493-7	SW8260B
MCCLELLAN FIELD QC	TRIP BLANK (TB528)	TB	W	5/2/2019	TALSAV	680-168493-1,-	680-168493-9	SW8260B
MCCLELLAN FIELD QC	TRIP BLANK (TB529)	TB	W	5/8/2019	TALSAV	680-168798-1	680-168798-12	SW8260B
MCCLELLAN FIELD QC	TRIP BLANK (TB530)	TB	W	5/8/2019	TALSAV	680-168800-1	680-168800-8	SW8260B
MCCLELLAN FIELD QC	TRIP BLANK (TB531)	TB	W	5/10/2019	TALSAV	680-168929-1	680-168929-8	SW8260B
MCCLELLAN FIELD QC	EQUIPMENT BLANK	EB	W	5/15/2019	TALSAV	680-169087-1	680-169087-12	SW6010C
MCCLELLAN FIELD QC	EQUIPMENT BLANK	EB	W	5/15/2019	TALSAV	680-169087-1	680-169087-12	SW8260B
MCCLELLAN FIELD QC	EQUIPMENT BLANK	EB	W	5/15/2019	TALSAV	680-169087-1	680-169087-12	SW9056A
MCCLELLAN FIELD QC	EQUIPMENT BLANK	EB	W	5/15/2019	TALSAV	680-169087-1	680-169087-12	SW9060A
MCCLELLAN FIELD QC	MATERIAL BLANK	NS	W	5/15/2019	TALSAV	680-169087-1	680-169087-13	SW6010C
MCCLELLAN FIELD QC	MATERIAL BLANK	NS	W	5/15/2019	TALSAV	680-169087-1	680-169087-13	SW8260B
MCCLELLAN FIELD QC	MATERIAL BLANK	NS	W	5/15/2019	TALSAV	680-169087-1	680-169087-13	SW9056A
MCCLELLAN FIELD QC	MATERIAL BLANK	NS	W	5/15/2019	TALSAV	680-169087-1	680-169087-13	SW9060A
MCCLELLAN FIELD QC	TRIP BLANK (TB532)	TB	W	5/15/2019	TALSAV	680-169087-1	680-169087-14	SW8260B

Notes:

EB = Equipment blank

FD = Field duplicate

ID = Identification

MS = Matrix spike

MSD = Matrix spike duplicate

NS = Normal sample

QC = Quality Control

TAL = TestAmerica, Savannah, GA

TB = Trip blank

W = Water

WG = Ground water

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G07	NS	WG	13-Nov-18	680-160798-1	680-160798-29	SW8260B	1,1,2,2-Tetrachloroethane	29	F1	J	µg/L
OLF-G21	NS	WG	09-May-19	680-168929-1	680-168929-3	SW8260B	Iodomethane	< 10	*	UJ	µg/L
OLF-G22	NS	WG	09-May-19	680-168929-1	680-168929-1	SW8260B	Iodomethane	< 10	*	UJ	µg/L
OLF-G23	NS	WG	08-May-19	680-168798-1	680-168798-3	SW8260B	Cis-1,2-Dichloroethene	93		J	µg/L
OLF-G23	NS	WG	08-May-19	680-168798-1	680-168798-3	SW8260B	Trans-1,2-Dichloroethene	30		J	µg/L
OLF-G23	NS	WG	08-May-19	680-168798-1	680-168798-3	SW8260B	Trichloroethene	150		J	µg/L
OLF-G31	NS	WG	15-May-19	680-169087-1	680-169087-15	SW8260B	Bromomethane	< 5	*	UJ	µg/L
OLF-G31	NS	WG	15-May-19	680-169087-1	680-169087-15	SW8260B	Vinyl Chloride	< 1		UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,1,1,2-Tetrachloroethane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,1,1-Trichloroethane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,1,2,2-Tetrachloroethane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,1,2-Trichloro-1,2,2-	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,1,2-Trichloroethane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,1-Dichloroethane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,1-Dichloroethene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,1-Dichloropropene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,2,3-Trichlorobenzene	< 5	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,2,3-Trichloropropane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,2,4-Trichlorobenzene	< 5	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,2,4-Trimethylbenzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,2-Dibromo-3-Chloropropane	< 5	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,2-Dibromoethane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,2-Dichlorobenzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,2-Dichloroethane	< 1	H *	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,2-Dichloropropane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,3,5-Trimethylbenzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,3-Dichlorobenzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,3-Dichloropropane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	1,4-Dichlorobenzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	2,2-Dichloropropane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	2-Butanone (MEK)	< 10	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	2-Chlorotoluene	< 1	H	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	2-Hexanone	< 10	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	4-Chlorotoluene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	4-Methyl-2-Pentanone (MIBK)	< 10	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Acetone	< 10	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Acrylonitrile	< 20	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Benzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Bromobenzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Bromochloromethane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Bromodichloromethane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Bromoform	< 1	H *	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Bromomethane	< 5	H *	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Carbon Disulfide	< 2	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Carbon Tetrachloride	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Chlorobenzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Chloroethane	< 5	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Chloroform	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Chloromethane	< 1	H *	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Cis-1,2-Dichloroethene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Cis-1,3-Dichloropropene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Dibromochloromethane	< 1	H *	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Dibromomethane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Dichlorodifluoromethane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Ethylbenzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Hexachlorobutadiene	< 5	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Iodomethane	< 10	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Isopropyl Benzene (Cumene)	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	m,p-Xylene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Methylene Chloride	< 5	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Mtbe	< 10	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Naphthalene	< 5	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	N-Butylbenzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	N-Propylbenzene	< 1	H	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	O-Xylene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	P-Isopropyltoluene (Cymene)	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Sec-Butylbenzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Styrene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Tert-Butylbenzene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Tetrachloroethylene	< 1	H *	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Toluene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Trans-1,2-Dichloroethene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Trans-1,3-Dichloropropene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Trans-1,4-Dichloro-2-Butene	< 2	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Trichloroethene	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Trichlorofluoromethane	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Vinyl Acetate	< 2	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Vinyl Chloride	< 1	H	UJ	µg/L
OLF-G32	NS	WG	14-May-19	680-169087-1	680-169087-8	SW8260B	Xylenes (Total)	< 1	H	UJ	µg/L
OLF-G36	NS	WG	09-May-19	680-168929-1	680-168929-2	SW8260B	Iodomethane	< 10	*	UJ	µg/L
OLF-G47	NS	WG	09-May-19	680-168929-1	680-168929-5	SW8260B	Iodomethane	< 10	*	UJ	µg/L
OLF-G52	NS	WG	09-May-19	680-168929-1	680-168929-4	SW8260B	Iodomethane	< 10	*	UJ	µg/L
OLF-G70	NS	WG	15-May-19	680-169087-1	680-169087-7	SW8260B	Bromomethane	< 5	*	UJ	µg/L
OLF-G70	NS	WG	15-May-19	680-169087-1	680-169087-7	SW8260B	Vinyl Chloride	< 1		UJ	µg/L
OLF-G71-PORT1	NS	WG	14-Nov-18	680-16798-1	680-160798-1	SW8260B	Trans-1,2-Dichloroethene	17	B	B	µg/L
OLF-G71-PORT3	NS	WG	14-Nov-18	680-16798-1	680-160798-3	SW8260B	Trans-1,2-Dichloroethene	6.1	B	B	µg/L
OLF-G71-PORT4	NS	WG	14-Nov-18	680-16798-1	680-160798-4	SW8260B	Trans-1,2-Dichloroethene	2.3	B	B	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	9056A	Sulfate	< 1	F1	UJ	mg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	1,1,2,2-Tetrachloroethane	< 1	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	1,1,2-Trichloroethane	< 1	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	1,2,3-Trichlorobenzene	< 5	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	1,2,3-Trichloropropane	< 1	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	1,2,4-Trichlorobenzene	< 5	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	1,2-Dibromo-3-Chloropropane	< 5	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	1,2-Dibromoethane	< 1	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	1,2-Dichlorobenzene	< 1	F2 F1	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	1,2-Dichloroethane	5.5	F1	J	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	1,3-Dichloropropane	< 1	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	1,4-Dichlorobenzene	0.96	J B	UB	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	2-Butanone (MEK)	16	F2 F1	J	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	2-Hexanone	< 10	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	4-Methyl-2-Pentanone (MIBK)	< 10	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Acetone	7.6	J F2 F1	J	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Acrylonitrile	< 20	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Bromobenzene	< 1	F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Bromochloromethane	< 1	F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Bromodichloromethane	< 1	F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Bromoform	< 1	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Carbon Disulfide	1.5	J B	UB	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Cis-1,3-Dichloropropene	< 1	F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Dibromochloromethane	< 1	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Dibromomethane	< 1	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Methylene Chloride	< 5	F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Mtbe	< 10	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Naphthalene	< 5	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Trans-1,2-Dichloroethene	1.3	B	UB	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Trans-1,3-Dichloropropene	< 1	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Trans-1,4-Dichloro-2-Butene	< 2	F2 F1	UJ	µg/L
OLF-G72-PORT1	NS	WG	02-May-19	680-168493-1,-2	680-168493-1	SW8260B	Vinyl Acetate	< 2	F2 F1	UJ	µg/L
OLF-G72-PORT2	NS	WG	02-May-19	680-168493-1,-2	680-168493-2	SW8260B	1,4-Dichlorobenzene	0.8	J B	UB	µg/L
OLF-G72-PORT2	NS	WG	02-May-19	680-168493-1,-2	680-168493-2	SW8260B	Carbon Disulfide	1.2	J B	UB	µg/L
OLF-G72-PORT3	NS	WG	02-May-19	680-168493-1,-2	680-168493-3	SW8260B	1,4-Dichlorobenzene	0.67	J B	UB	µg/L
OLF-G72-PORT3	NS	WG	02-May-19	680-168493-1,-2	680-168493-3	SW8260B	Carbon Disulfide	1.1	J B	UB	µg/L
OLF-G72-PORT3	NS	WG	02-May-19	680-168493-1,-2	680-168493-3	SW8260B	N-Butylbenzene	0.52	J B	UB	µg/L
OLF-G72-PORT4	NS	WG	02-May-19	680-168493-1,-2	680-168493-4	SW8260B	1,4-Dichlorobenzene	0.56	J B	UB	µg/L
OLF-G72-PORT4	NS	WG	02-May-19	680-168493-1,-2	680-168493-4	SW8260B	Carbon Disulfide	1.2	J B	UB	µg/L
OLF-G72-PORT4	NS	WG	02-May-19	680-168493-1,-2	680-168493-4	SW8260B	Trans-1,2-Dichloroethene	3.3	B	UB	µg/L
OLF-G72-PORT5	NS	WG	02-May-19	680-168493-1,-2	680-168493-5	SW8260B	Trans-1,2-Dichloroethene	1.9	B	UB	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G72-PORT6	NS	WG	02-May-19	680-168493-1,-2	680-168493-6	SW8260B	Trans-1,2-Dichloroethene	1.3	B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	1,2-Dichlorobenzene	0.43	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	1,3,5-Trimethylbenzene	0.47	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	1,3-Dichlorobenzene	0.54	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	1,4-Dichlorobenzene	1.3	B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	4-Chlorotoluene	0.49	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	Carbon Disulfide	2.2	B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	Cis-1,2-Dichloroethene	0.46	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	Hexachlorobutadiene	2.9	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	Isopropyl Benzene (Cumene)	0.44	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	N-Butylbenzene	0.99	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	N-Propylbenzene	0.49	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	O-Xylene	0.3	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	P-Isopropyltoluene (Cymene)	0.54	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	Sec-Butylbenzene	0.61	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	Tert-Butylbenzene	0.62	J B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	Trichloroethene	2	B	UB	µg/L
OLF-G73-PORT1	NS	WG	01-May-19	680-168493-1,-2	680-168493-10	SW8260B	Xylenes (Total)	0.3	J B	UB	µg/L
OLF-G73-PORT2	NS	WG	01-May-19	680-168493-1,-2	680-168493-11	SW8260B	1,4-Dichlorobenzene	0.59	J B	UB	µg/L
OLF-G73-PORT2	NS	WG	01-May-19	680-168493-1,-2	680-168493-11	SW8260B	Carbon Disulfide	1.6	J B	UB	µg/L
OLF-G73-PORT2	NS	WG	01-May-19	680-168493-1,-2	680-168493-11	SW8260B	Cis-1,2-Dichloroethene	1.2	B	UB	µg/L
OLF-G73-PORT2	NS	WG	01-May-19	680-168493-1,-2	680-168493-11	SW8260B	N-Butylbenzene	0.53	J B	UB	µg/L
OLF-G73-PORT2	NS	WG	01-May-19	680-168493-1,-2	680-168493-11	SW8260B	Trans-1,2-Dichloroethene	2.5	B	UB	µg/L
OLF-G73-PORT3	NS	WG	01-May-19	680-168493-1,-2	680-168493-12	SW8260B	1,1-Dichloroethene	0.45	J B	UB	µg/L
OLF-G73-PORT3	NS	WG	01-May-19	680-168493-1,-2	680-168493-12	SW8260B	Carbon Disulfide	1.3	J B	UB	µg/L
OLF-G73-PORT3	NS	WG	01-May-19	680-168493-1,-2	680-168493-12	SW8260B	Trans-1,2-Dichloroethene	6.3	B	UB	µg/L
OLF-G74-PORT1	NS	WG	12-Nov-18	680-16798-1	680-160798-14	SW8260B	Trans-1,2-Dichloroethene	0.56	J B	B	µg/L
OLF-G74-PORT2	NS	WG	12-Nov-18	680-16798-1	680-160798-15	SW8260B	Trans-1,2-Dichloroethene	57	B	B	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	1,1-Dichloroethene	0.53	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	1,1-Dichloropropene	0.42	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	1,2-Dichlorobenzene	0.38	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	1,3,5-Trimethylbenzene	0.53	J B	UB	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	1,3-Dichlorobenzene	0.5	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	1,4-Dichlorobenzene	0.59	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	Carbon Disulfide	2.5	B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	Cis-1,2-Dichloroethene	4	B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	Hexachlorobutadiene	3	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	Isopropyl Benzene (Cumene)	0.41	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	N-Butylbenzene	1.1	B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	N-Propylbenzene	0.61	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	O-Xylene	0.25	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	P-Isopropyltoluene (Cymene)	0.63	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	Sec-Butylbenzene	0.64	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	Tert-Butylbenzene	0.62	J B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	Trans-1,2-Dichloroethene	1.6	B	UB	µg/L
OLF-G74-PORT2	FD	WG	01-May-19	680-168493-1,-2	680-168493-8	SW8260B	Xylenes (Total)	0.25	J B	UB	µg/L
OLF-G74-PORT3	NS	WG	12-Nov-18	680-16798-1	680-160798-16	SW8260B	Trans-1,2-Dichloroethene	3.4	B	B	µg/L
OLF-G74-PORT4	NS	WG	12-Nov-18	680-16798-1	680-160798-17	SW8260B	Trans-1,2-Dichloroethene	0.46	J B	B	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,1,1,2-Tetrachloroethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,1,1-Trichloroethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,1,2,2-Tetrachloroethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,1,2-Trichloroethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,1-Dichloroethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,1-Dichloroethene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,1-Dichloropropene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,2,3-Trichlorobenzene	< 5	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,2,3-Trichloropropane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,2,4-Trichlorobenzene	< 5	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,2,4-Trimethylbenzene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,2-Dibromo-3-Chloropropane	< 5	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,2-Dibromoethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,2-Dichlorobenzene	< 1	H	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,2-Dichloroethane	< 1	H *	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,2-Dichloropropane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,3,5-Trimethylbenzene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,3-Dichlorobenzene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,3-Dichloropropane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	1,4-Dichlorobenzene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	2,2-Dichloropropane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	2-Butanone (MEK)	< 10	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	2-Chlorotoluene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	2-Hexanone	< 10	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	4-Chlorotoluene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	4-Methyl-2-Pentanone (MIBK)	< 10	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Acetone	< 10	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Acrylonitrile	< 20	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Benzene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Bromobenzene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Bromochloromethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Bromodichloromethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Bromoform	< 1	H *	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Bromomethane	< 5	H *	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Carbon Disulfide	< 2	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Carbon Tetrachloride	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Chlorobenzene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Chloroethane	< 5	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Chloroform	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Chloromethane	< 1	H *	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Cis-1,2-Dichloroethene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Cis-1,3-Dichloropropene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Dibromochloromethane	< 1	H *	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Dibromomethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Dichlorodifluoromethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Ethylbenzene	< 1	H	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Hexachlorobutadiene	< 5	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Iodomethane	< 10	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Isopropyl Benzene (Cumene)	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	m,p-Xylene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Methylene Chloride	< 5	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Mtbe	< 10	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Naphthalene	< 5	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	N-Butylbenzene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	N-Propylbenzene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	O-Xylene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	P-Isopropyltoluene (Cymene)	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Sec-Butylbenzene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Styrene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Tert-Butylbenzene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Tetrachloroethylene	< 1	H *	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Toluene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Trans-1,2-Dichloroethene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Trans-1,3-Dichloropropene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Trans-1,4-Dichloro-2-Butene	< 2	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Trichloroethene	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Trichlorofluoromethane	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Vinyl Acetate	< 2	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Vinyl Chloride	< 1	H	UJ	µg/L
OLF-G75-S4	NS	WG	14-May-19	680-169087-1	680-169087-4	SW8260B	Xylenes (Total)	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,1,1,2-Tetrachloroethane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,1,1-Trichloroethane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,1,2,2-Tetrachloroethane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,1,2-Trichloro-1,2,2-	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,1,2-Trichloroethane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,1-Dichloroethane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,1-Dichloroethene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,1-Dichloropropene	< 1	H	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,2,3-Trichlorobenzene	< 5	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,2,3-Trichloropropane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,2,4-Trichlorobenzene	< 5	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,2,4-Trimethylbenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,2-Dibromo-3-Chloropropane	< 5	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,2-Dibromoethane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,2-Dichlorobenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,2-Dichloroethane	< 1	H *	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,2-Dichloropropane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,3,5-Trimethylbenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,3-Dichlorobenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,3-Dichloropropane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	1,4-Dichlorobenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	2,2-Dichloropropane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	2-Butanone (MEK)	< 10	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	2-Chlorotoluene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	2-Hexanone	< 10	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	4-Chlorotoluene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	4-Methyl-2-Pentanone (MIBK)	< 10	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Acetone	< 10	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Acrylonitrile	< 20	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Benzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Bromobenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Bromochloromethane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Bromodichloromethane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Bromoform	< 1	H *	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Bromomethane	< 5	H *	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Carbon Disulfide	< 2	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Carbon Tetrachloride	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Chlorobenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Chloroethane	< 5	H	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Chloroform	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Chloromethane	< 1	H *	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Cis-1,2-Dichloroethene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Cis-1,3-Dichloropropene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Dibromochloromethane	< 1	H *	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Dibromomethane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Dichlorodifluoromethane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Ethylbenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Hexachlorobutadiene	< 5	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Iodomethane	< 10	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Isopropyl Benzene (Cumene)	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	m,p-Xylene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Methylene Chloride	< 5	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Mtbe	< 10	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Naphthalene	< 5	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	N-Butylbenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	N-Propylbenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	O-Xylene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	P-Isopropyltoluene (Cymene)	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Sec-Butylbenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Styrene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Tert-Butylbenzene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Tetrachloroethylene	< 1	H *	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Toluene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Trans-1,2-Dichloroethene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Trans-1,3-Dichloropropene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Trans-1,4-Dichloro-2-Butene	< 2	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Trichloroethene	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Trichlorofluoromethane	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Vinyl Acetate	< 2	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Vinyl Chloride	< 1	H	UJ	µg/L
OLF-G75-S5	NS	WG	14-May-19	680-169087-1	680-169087-5	SW8260B	Xylenes (Total)	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,1,1,2-Tetrachloroethane	< 1	H	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,1,1-Trichloroethane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,1,2,2-Tetrachloroethane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,1,2-Trichloroethane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,1-Dichloroethane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,1-Dichloroethene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,1-Dichloropropene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,2,3-Trichlorobenzene	< 5	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,2,3-Trichloropropane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,2,4-Trichlorobenzene	< 5	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,2,4-Trimethylbenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,2-Dibromo-3-Chloropropane	< 5	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,2-Dibromoethane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,2-Dichlorobenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,2-Dichloroethane	< 1	H *	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,2-Dichloropropane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,3,5-Trimethylbenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,3-Dichlorobenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,3-Dichloropropane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	1,4-Dichlorobenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	2,2-Dichloropropane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	2-Butanone (MEK)	< 10	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	2-Chlorotoluene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	2-Hexanone	< 10	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	4-Chlorotoluene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	4-Methyl-2-Pentanone (MIBK)	< 10	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Acetone	< 10	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Acrylonitrile	< 20	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Benzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Bromobenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Bromochloromethane	< 1	H	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Bromodichloromethane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Bromoform	< 1	H *	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Bromomethane	< 5	H *	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Carbon Disulfide	< 2	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Carbon Tetrachloride	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Chlorobenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Chloroethane	< 5	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Chloroform	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Chloromethane	< 1	H *	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Cis-1,2-Dichloroethene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Cis-1,3-Dichloropropene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Dibromochloromethane	< 1	H *	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Dibromomethane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Dichlorodifluoromethane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Ethylbenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Hexachlorobutadiene	< 5	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Iodomethane	< 10	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Isopropyl Benzene (Cumene)	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	m,p-Xylene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Methylene Chloride	< 5	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Mtbe	< 10	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Naphthalene	< 5	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	N-Butylbenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	N-Propylbenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	O-Xylene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	P-Isopropyltoluene (Cymene)	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Sec-Butylbenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Styrene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Tert-Butylbenzene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Tetrachloroethylene	< 1	H *	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Toluene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Trans-1,2-Dichloroethene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Trans-1,3-Dichloropropene	< 1	H	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Trans-1,4-Dichloro-2-Butene	< 2	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Trichloroethene	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Trichlorofluoromethane	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Vinyl Acetate	< 2	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Vinyl Chloride	< 1	H	UJ	µg/L
OLF-G75-S6	NS	WG	14-May-19	680-169087-1	680-169087-6	SW8260B	Xylenes (Total)	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,1,1,2-Tetrachloroethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,1,1-Trichloroethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,1,2,2-Tetrachloroethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,1,2-Trichloroethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,1-Dichloroethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,1-Dichloroethene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,1-Dichloropropene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,2,3-Trichlorobenzene	< 5	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,2,3-Trichloropropane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,2,4-Trichlorobenzene	< 5	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,2,4-Trimethylbenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,2-Dibromo-3-Chloropropane	< 5	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,2-Dibromoethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,2-Dichlorobenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,2-Dichloroethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,2-Dichloropropane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,3,5-Trimethylbenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,3-Dichlorobenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,3-Dichloropropane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	1,4-Dichlorobenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	2,2-Dichloropropane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	2-Butanone (MEK)	< 10	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	2-Chlorotoluene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	2-Hexanone	< 10	H	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	4-Chlorotoluene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	4-Methyl-2-Pentanone (MIBK)	< 10	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Acetone	< 10	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Acrylonitrile	< 20	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Benzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Bromobenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Bromochloromethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Bromodichloromethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Bromoform	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Bromomethane	< 5	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Carbon Disulfide	< 2	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Carbon Tetrachloride	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Chlorobenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Chloroethane	< 5	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Chloroform	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Chloromethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Cis-1,2-Dichloroethene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Cis-1,3-Dichloropropene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Dibromochloromethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Dibromomethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Dichlorodifluoromethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Ethylbenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Hexachlorobutadiene	< 5	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Iodomethane	< 10	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Isopropyl Benzene (Cumene)	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	m,p-Xylene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Methylene Chloride	< 5	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Mtbe	< 10	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Naphthalene	< 5	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	N-Butylbenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	N-Propylbenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	O-Xylene	< 1	H	UJ	µg/L

Table 4-2: Summary of Final Qualifiers
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Lab ID	Method	Parameter Name	Value	Lab Flag	Vaidation Code	Units
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	P-Isopropyltoluene (Cymene)	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Sec-Butylbenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Styrene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Tert-Butylbenzene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Tetrachloroethylene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Toluene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Trans-1,2-Dichloroethene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Trans-1,3-Dichloropropene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Trans-1,4-Dichloro-2-Butene	< 2	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Trichloroethene	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Trichlorofluoromethane	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Vinyl Acetate	< 2	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Vinyl Chloride	< 1	H	UJ	µg/L
PPMP-229-GP12	NS	WG	14-May-19	680-169087-1	680-169087-10	SW8260B	Xylenes (Total)	< 1	H	UJ	µg/L
TRIP BLANK	TB	W	02-May-19	680-168493-1,-2	680-168493-9	SW8260B	Carbon Disulfide	1.6	J B	UB	µg/L
TRIP BLANK	TB	W	02-May-19	680-168493-1,-2	680-168493-7	SW8260B	Carbon Disulfide	1.2	J B	UB	µg/L

Notes:

FD = Field Duplicate

µg/L = micrograms per liter

mg/L = milligrams per liter

NS = Normal Sample

QC = Quality Control

TB = Trip Blank

W = Water

WG = Ground Water

Freon113 = 1,1,2-Trichloro-1,2,2-Trifluoroethane

Lab Qualifier:

* = QC recovery outside acceptance criteria.

B = Analyte detected in an associated blank.

F1 = MS and/or MSD recovery is outside acceptance criteria.

F2 = MS/MSD RPD outside acceptance criteria.

H = Extraction/and or analysis holding time exceeded.

J = Result is estimated; detected between the method detection limit and the reporting limit.

Validation Qualifier:

B = Analyte detected in an associated blank.

J = Analyte was detected. The reported quantitation limit is estimated.

UB = Analyte considered not detected based on concentration in an associated blank.

UJ = Analyte was analyzed for, but was not detected. The reported quantitation limit is estimated.

Table 4-3: Qualified Data Summary
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Lab	QC		Method	Non-Qualified				
	Code	Matrix		Results	B	J	UB	UJ
TALSAV	NS	WG	RSK-175	132				
TALSAV	NS	WG	SM5310D	1				
TALSAV	NS	WG	SW6010B	104	1			
TALSAV	NS	WG	SW8260B	466	7	7	38	389
TALSAV	NS	WG	SW9056	180				
TALSAV	NS	WG	SW9060	48				
TALSAV	FD	WG	RSK-175	18				
TALSAV	FD	WG	SW6010B	10				
TALSAV	FD	WG	SW8260B	547	1		18	
TALSAV	FD	WG	SW9056	22	1			1
TALSAV	FD	WG	SW9060	7				
TALSAV	EB	W	SW6010C	1				
TALSAV	EB	W	SW8260B	66				1
TALSAV	EB	W	SW9056A	1				
TALSAV	EB	W	SW9060A	1				
TALSAV	TB	W	SW8260B	67				

Notes:

FD = Field duplicate
NS = Normal sample
QC = Quality Control
TB = Trip blank
W = Water
WG = Ground water
WS = Source water

Validation Qualifier:

J = Analyte was detected. The reported result is estimated.
UJ = Analyte was analyzed for, but was not detected. The reported quantitation limit is estimated.

Validation Sub-qualifier:

M = Result qualified based on matrix spike/matrix spike duplicate recoveries.
Q = Result qualified based on headspace in sample container, see Section 5.1.2.8 for details.

Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G07	WG	11/13/18	680-160798-1	SW6010C	Sodium	100	93	80	120	7.3	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,1,1,2-Tetrachloroethane	114	114	75	125	0.0	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,1,1-Trichloroethane	105	106	80	120	0.9	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,1,2,2-Tetrachloroethane	154	133	74	128	14.6	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	92	98	72	128	6.3	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,1,2-Trichloroethane	102	96	65	131	6.1	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,1-Dichloroethane	105	95	79	125	10.0	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,1-Dichloroethene	108	113	80	120	4.5	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,1-Dichloropropene	95	100	74	125	5.1	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,2,3-Trichlorobenzene	89	90	78	127	1.1	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,2,3-Trichloropropane	121	115	61	151	5.1	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,2,4-Trichlorobenzene	84	86	70	132	2.4	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,2,4-Trimethylbenzene	89	98	77	131	9.6	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,2-Dibromo-3-Chloropropane	111	101	80	124	9.4	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,2-Dibromoethane	101	98	59	141	3.0	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,2-Dichlorobenzene	106	105	77	131	0.9	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,2-Dichloroethane	101	98	80	120	3.0	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,2-Dichloropropane	99	95	75	130	4.1	50
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,3,5-Trimethylbenzene	90	101	73	131	11.5	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,3-Dichlorobenzene	105	107	80	123	1.9	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,3-Dichloropropane	100	95	80	120	5.1	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	1,4-Dichlorobenzene	103	103	80	120	0.0	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	2,2-Dichloropropane	40	38	78	127	5.1	30
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	2-Butanone (MEK)	88	85	80	120	3.5	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	2-Chlorotoluene	98	106	72	133	7.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	2-Hexanone	89	85	75	133	4.6	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	4-Chlorotoluene	95	103	77	121	8.1	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	4-Methyl-2-Pentanone (MIBK)	92	87	70	141	5.6	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Acetone	97	90	80	120	7.5	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Acrylonitrile	92	87	75	135	5.6	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Benzene	100	99	60	154	1.0	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Bromobenzene	103	104	72	132	1.0	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Bromochloromethane	101	96	73	131	5.1	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Bromodichloromethane	99	96	79	124	3.1	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Bromoform	88	85	77	129	3.5	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Bromomethane	96	115	80	120	18.0	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Carbon Disulfide	95	99	69	135	4.1	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Carbon Tetrachloride	96	102	20	180	6.1	20

Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Chlorobenzene	103	104	73	127	1.0	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Chloroethane	107	104	75	130	2.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Chloroform	107	104	80	120	2.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Chloromethane	111	108	77	122	2.7	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Cis-1,2-Dichloroethene	88	86	50	151	2.3	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Cis-1,3-Dichloropropene	80	78	79	122	2.5	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Dibromochloromethane	98	95	63	126	3.1	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Dibromomethane	106	99	80	122	6.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Dichlorodifluoromethane	121	127	80	133	4.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Ethylbenzene	99	107	71	136	7.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Hexachlorobutadiene	66	78	80	122	16.7	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Iodomethane	98	103	80	122	5.0	40
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Isopropyl Benzene (Cumene)	95	108	51	140	12.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	m,p-Xylene	99	105	80	120	5.9	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Methylene Chloride	106	102	77	129	3.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Mtbe	93	87	80	120	6.7	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Naphthalene	111	109	74	135	1.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	N-Butylbenzene	81	92	76	129	12.7	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	N-Propylbenzene	90	103	15	162	13.5	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	O-Xylene	100	107	80	120	6.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	P-Isopropyltoluene (Cymene)	87	98	69	148	11.9	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Sec-Butylbenzene	85	102	78	124	18.2	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Styrene	97	102	80	120	5.0	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Tert-Butylbenzene	90	104	80	120	14.4	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Tetrachloroethylene	89	99	80	120	10.6	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Toluene	93	95	76	125	2.1	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Trans-1,2-Dichloroethene	101	101	80	122	0.0	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Trans-1,3-Dichloropropene	79	75	80	120	5.2	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Trans-1,4-Dichloro-2-Butene	78	69	77	123	12.2	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Trichloroethene	98	105	80	122	6.9	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Trichlorofluoromethane	113	118	80	120	4.3	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Vinyl Acetate	53	49	78	123	7.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Vinyl Chloride	114	112	74	140	1.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW8260B	Xylenes (Total)	99	106	55	147	6.8	20
OLF-G07	WG	11/13/18	680-160798-1	SW9056A	Sulfate	95	97	80	120	2.1	20
OLF-G07	WG	5/7/19	680-168800-1	SW6010C	Sodium	93	87	80	120	6.7	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,1,1,2-Tetrachloroethane	102	100	75	125	2.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,1,1-Trichloroethane	109	106	80	120	2.8	20

**Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama**

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,1,2,2-Tetrachloroethane	103	100	74	128	3.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	117	117	72	128	0.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,1,2-Trichloroethane	103	105	65	131	1.9	30
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,1-Dichloroethane	102	103	79	125	1.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,1-Dichloroethene	111	114	80	120	2.7	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,1-Dichloropropene	104	105	74	125	1.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,2,3-Trichlorobenzene	101	103	78	127	2.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,2,3-Trichloropropane	98	95	61	151	3.1	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,2,4-Trichlorobenzene	100	102	70	132	2.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,2,4-Trimethylbenzene	106	101	77	131	4.8	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,2-Dibromo-3-Chloropropane	94	92	80	124	2.2	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,2-Dibromoethane	105	105	59	141	0.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,2-Dichlorobenzene	92	89	77	131	3.3	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,2-Dichloroethane	103	104	80	120	1.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,2-Dichloropropane	103	104	75	130	1.0	50
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,3,5-Trimethylbenzene	103	101	73	131	2.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,3-Dichlorobenzene	94	93	80	123	1.1	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,3-Dichloropropane	101	101	80	120	0.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	1,4-Dichlorobenzene	93	95	80	120	2.1	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	2,2-Dichloropropane	94	96	78	127	2.1	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	2-Butanone (MEK)	92	94	80	120	2.2	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	2-Chlorotoluene	99	97	72	133	2.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	2-Hexanone	94	98	75	133	4.2	30
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	4-Chlorotoluene	101	96	77	121	5.1	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	4-Methyl-2-Pentanone (MIBK)	95	96	70	141	1.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Acetone	81	84	80	120	3.6	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Acrylonitrile	93	95	75	135	2.1	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Benzene	100	100	60	154	0.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Bromobenzene	105	101	72	132	3.9	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Bromochloromethane	102	98	73	131	4.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Bromodichloromethane	107	108	79	124	0.9	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Bromoform	106	102	77	129	3.8	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Bromomethane	60	63	80	120	4.9	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Carbon Disulfide	102	105	69	135	2.9	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Carbon Tetrachloride	113	114	20	180	0.9	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Chlorobenzene	99	99	73	127	0.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Chloroethane	100	100	75	130	0.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Chloroform	106	102	80	120	3.8	30

**Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama**

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Chloromethane	93	95	77	122	2.1	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Cis-1,2-Dichloroethene	101	102	50	151	1.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Cis-1,3-Dichloropropene	100	102	79	122	2.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Dibromochloromethane	108	109	63	126	0.9	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Dibromomethane	104	104	80	122	0.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Dichlorodifluoromethane	98	101	80	133	3.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Ethylbenzene	100	99	71	136	1.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Hexachlorobutadiene	114	117	80	122	2.6	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Iodomethane	54	61	80	122	12.2	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Isopropyl Benzene (Cumene)	105	102	51	140	2.9	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	m,p-Xylene	101	98	80	120	3.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Methylene Chloride	94	97	77	129	3.1	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Mtbe	100	102	80	120	2.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Naphthalene	92	98	74	135	6.3	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	N-Butylbenzene	102	98	76	129	4.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	N-Propylbenzene	103	101	15	162	2.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	O-Xylene	100	98	80	120	2.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	P-Isopropyltoluene (Cymene)	102	102	69	148	0.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Sec-Butylbenzene	108	104	78	124	3.8	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Styrene	102	100	80	120	2.0	30
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Tert-Butylbenzene	106	100	80	120	5.8	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Tetrachloroethylene	115	116	80	120	0.9	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Toluene	103	105	76	125	1.9	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Trans-1,2-Dichloroethene	109	112	80	122	2.7	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Trans-1,3-Dichloropropene	96	95	80	120	1.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Trans-1,4-Dichloro-2-Butene	97	94	77	123	3.1	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Trichloroethene	120	115	80	122	4.3	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Trichlorofluoromethane	111	114	80	120	2.7	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Vinyl Acetate	116	114	78	123	1.7	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Vinyl Chloride	103	105	74	140	1.9	20
OLF-G07	WG	5/7/19	680-168800-1	SW8260B	Xylenes (Total)	100	98	55	147	2.0	20
OLF-G07	WG	5/7/19	680-168800-1	SW9056A	Sulfate	101	101	80	120	0.0	20
OLF-G12	WG	11/19/18	680-161061-1	SW9056A	Sulfate	103	104	80	120	1.0	20
OLF-G22	WG	5/9/19	680-168929-1	SW9056A	Sulfate	81	96	80	120	16.9	20
OLF-G36	WG	11/19/18	680-161061-1	SW9056A	Sulfate	95	96	80	120	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,1,1,2-Tetrachloroethane	95	96	75	125	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,1,1-Trichloroethane	98	97	80	120	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,1,2,2-Tetrachloroethane	104	106	74	128	1.9	20

Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	106	106	72	128	0.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,1,2-Trichloroethane	98	97	65	131	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,1-Dichloroethane	104	101	79	125	2.9	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,1-Dichloroethene	106	103	80	120	2.9	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,1-Dichloropropene	104	105	74	125	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,2,3-Trichlorobenzene	114	129	78	127	12.3	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,2,3-Trichloropropane	98	101	61	151	3.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,2,4-Trichlorobenzene	103	110	70	132	6.6	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,2,4-Trimethylbenzene	98	100	77	131	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,2-Dibromo-3-Chloropropane	104	112	80	124	7.4	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,2-Dibromoethane	95	94	59	141	1.1	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,2-Dichlorobenzene	99	100	77	131	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,2-Dichloroethane	91	89	80	120	2.2	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,2-Dichloropropane	103	103	75	130	0.0	50
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,3,5-Trimethylbenzene	99	101	73	131	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,3-Dichlorobenzene	97	99	80	123	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,3-Dichloropropane	97	96	80	120	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	1,4-Dichlorobenzene	94	97	80	120	3.1	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	2,2-Dichloropropane	97	96	78	127	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	2-Butanone (MEK)	81	86	80	120	6.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	2-Chlorotoluene	96	97	72	133	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	2-Hexanone	105	105	75	133	0.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	4-Chlorotoluene	97	100	77	121	3.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	4-Methyl-2-Pentanone (MIBK)	100	102	70	141	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Acetone	96	98	80	120	2.1	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Acrylonitrile	104	105	75	135	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Benzene	102	102	60	154	0.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Bromobenzene	93	95	72	132	2.1	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Bromochloromethane	102	115	73	131	12.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Bromodichloromethane	93	94	79	124	1.1	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Bromoform	92	95	77	129	3.2	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Bromomethane	99	98	80	120	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Carbon Disulfide	105	104	69	135	1.0	30
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Carbon Tetrachloride	97	98	20	180	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Chlorobenzene	96	97	73	127	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Chloroethane	111	110	75	130	0.9	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Chloroform	100	98	80	120	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Chloromethane	109	108	77	122	0.9	20

Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Cis-1,2-Dichloroethene	99	97	50	151	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Cis-1,3-Dichloropropene	97	97	79	122	0.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Dibromochloromethane	92	91	63	126	1.1	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Dibromomethane	93	93	80	122	0.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Dichlorodifluoromethane	101	98	80	133	3.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Ethylbenzene	100	102	71	136	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Hexachlorobutadiene	102	105	80	122	2.9	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Iodomethane	96	96	80	122	0.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Isopropyl Benzene (Cumene)	99	100	51	140	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	m,p-Xylene	97	99	80	120	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Methylene Chloride	105	104	77	129	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Mtbe	83	87	80	120	4.7	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Naphthalene	114	131	74	135	13.9	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	N-Butylbenzene	105	107	76	129	1.9	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	N-Propylbenzene	98	100	15	162	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	O-Xylene	98	99	80	120	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	P-Isopropyltoluene (Cymene)	99	101	69	148	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Sec-Butylbenzene	100	102	78	124	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Styrene	100	102	80	120	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Tert-Butylbenzene	97	99	80	120	2.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Tetrachloroethylene	96	95	80	120	1.0	25
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Toluene	99	98	76	125	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Trans-1,2-Dichloroethene	108	105	80	122	2.8	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Trans-1,3-Dichloropropene	91	91	80	120	0.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Trans-1,4-Dichloro-2-Butene	89	89	77	123	0.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Trichloroethene	95	95	80	122	0.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Trichlorofluoromethane	95	93	80	120	2.1	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Vinyl Acetate	96	100	78	123	4.1	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Vinyl Chloride	104	103	74	140	1.0	20
OLF-G42	WG	11/19/18	680-161061-1	SW8260B	Xylenes (Total)	98	99	55	147	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,1,1,2-Tetrachloroethane	106	104	75	125	1.9	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,1,1-Trichloroethane	105	103	80	120	1.9	30
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,1,2,2-Tetrachloroethane	99	97	74	128	2.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	98	97	72	128	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,1,2-Trichloroethane	101	99	65	131	2.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,1-Dichloroethane	102	98	79	125	4.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,1-Dichloroethene	105	103	80	120	1.9	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,1-Dichloropropene	102	98	74	125	4.0	20

Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,2,3-Trichlorobenzene	92	92	78	127	0.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,2,3-Trichloropropane	100	101	61	151	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,2,4-Trichlorobenzene	91	90	70	132	1.1	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,2,4-Trimethylbenzene	97	96	77	131	1.0	30
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,2-Dibromo-3-Chloropropane	103	103	80	124	0.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,2-Dibromoethane	99	97	59	141	2.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,2-Dichlorobenzene	96	93	77	131	3.2	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,2-Dichloroethane	101	98	80	120	3.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,2-Dichloropropane	96	93	75	130	3.2	50
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,3,5-Trimethylbenzene	97	98	73	131	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,3-Dichlorobenzene	93	95	80	123	2.1	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,3-Dichloropropane	97	95	80	120	2.1	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	1,4-Dichlorobenzene	96	93	80	120	3.2	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	2,2-Dichloropropane	82	79	78	127	3.7	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	2-Butanone (MEK)	99	99	80	120	0.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	2-Chlorotoluene	99	97	72	133	2.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	2-Hexanone	94	93	75	133	1.1	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	4-Chlorotoluene	98	97	77	121	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	4-Methyl-2-Pentanone (MIBK)	97	96	70	141	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Acetone	92	89	80	120	3.3	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Acrylonitrile	91	89	75	135	2.2	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Benzene	99	96	60	154	3.1	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Bromobenzene	99	98	72	132	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Bromochloromethane	97	96	73	131	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Bromodichloromethane	103	100	79	124	3.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Bromoform	108	106	77	129	1.9	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Bromomethane	66	83	80	120	22.8	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Carbon Disulfide	100	98	69	135	2.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Carbon Tetrachloride	108	106	20	180	1.9	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Chlorobenzene	99	98	73	127	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Chloroethane	101	99	75	130	2.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Chloroform	104	101	80	120	2.9	30
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Chloromethane	97	99	77	122	2.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Cis-1,2-Dichloroethene	97	94	50	151	3.1	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Cis-1,3-Dichloropropene	99	97	79	122	2.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Dibromochloromethane	106	103	63	126	2.9	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Dibromomethane	102	98	80	122	4.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Dichlorodifluoromethane	90	92	80	133	2.2	20

Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Ethylbenzene	98	98	71	136	0.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Hexachlorobutadiene	92	90	80	122	2.2	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Iodomethane	93	95	80	122	2.1	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Isopropyl Benzene (Cumene)	101	100	51	140	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	m,p-Xylene	98	97	80	120	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Methylene Chloride	94	94	77	129	0.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Mtbe	98	97	80	120	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Naphthalene	95	96	74	135	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	N-Butylbenzene	93	93	76	129	0.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	N-Propylbenzene	99	97	15	162	2.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	O-Xylene	99	96	80	120	3.1	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	P-Isopropyltoluene (Cymene)	96	96	69	148	0.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Sec-Butylbenzene	99	97	78	124	2.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Styrene	99	97	80	120	2.0	30
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Tert-Butylbenzene	101	100	80	120	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Tetrachloroethylene	103	103	80	120	0.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Toluene	101	100	76	125	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Trans-1,2-Dichloroethene	103	101	80	122	2.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Trans-1,3-Dichloropropene	98	96	80	120	2.1	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Trans-1,4-Dichloro-2-Butene	96	95	77	123	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Trichloroethene	104	100	80	122	3.9	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Trichlorofluoromethane	104	104	80	120	0.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Vinyl Acetate	87	86	78	123	1.2	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Vinyl Chloride	99	98	74	140	1.0	20
OLF-G42	WG	5/13/19	680-169087-1	SW8260B	Xylenes (Total)	98	97	55	147	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	RSK-175	Ethane	95	94	80	120	1.1	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	RSK-175	Ethene	83	80	80	120	3.7	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW6010C	Sodium	71	136	80	120	62.8	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,1,1,2-Tetrachloroethane	102	103	75	125	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,1,1-Trichloroethane	106	104	80	120	1.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,1,2,2-Tetrachloroethane	104	106	74	128	1.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	110	104	72	128	5.6	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,1,2-Trichloroethane	98	100	65	131	2.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,1-Dichloroethane	103	105	79	125	1.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,1-Dichloroethene	105	106	80	120	0.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,1-Dichloropropene	111	109	74	125	1.8	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,2,3-Trichlorobenzene	115	131	78	127	13.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,2,3-Trichloropropane	101	104	61	151	2.9	20

**Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama**

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,2,4-Trichlorobenzene	108	115	70	132	6.3	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,2,4-Trimethylbenzene	101	105	77	131	3.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,2-Dibromo-3-Chloropropane	107	117	80	124	8.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,2-Dibromoethane	99	101	59	141	2.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,2-Dichlorobenzene	102	103	77	131	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,2-Dichloroethane	98	97	80	120	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,2-Dichloropropane	103	104	75	130	1.0	50
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,3,5-Trimethylbenzene	103	105	73	131	1.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,3-Dichlorobenzene	102	103	80	123	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,3-Dichloropropane	98	98	80	120	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	1,4-Dichlorobenzene	100	101	80	120	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	2,2-Dichloropropane	105	103	78	127	1.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	2-Butanone (MEK)	99	92	80	120	7.3	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	2-Chlorotoluene	102	102	72	133	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	2-Hexanone	102	105	75	133	2.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	4-Chlorotoluene	101	103	77	121	2.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	4-Methyl-2-Pentanone (MIBK)	101	101	70	141	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Acetone	92	94	80	120	2.2	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Acrylonitrile	99	100	75	135	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Benzene	104	104	60	154	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Bromobenzene	99	100	72	132	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Bromochloromethane	99	101	73	131	2.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Bromodichloromethane	100	99	79	124	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Bromoform	99	101	77	129	2.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Bromomethane	102	105	80	120	2.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Carbon Disulfide	104	105	69	135	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Carbon Tetrachloride	107	106	20	180	0.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Chlorobenzene	96	99	73	127	3.1	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Chloroethane	107	109	75	130	1.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Chloroform	101	103	80	120	2.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Chloromethane	103	102	77	122	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Cis-1,2-Dichloroethene	101	103	50	151	2.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Cis-1,3-Dichloropropene	100	100	79	122	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Dibromochloromethane	96	99	63	126	3.1	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Dibromomethane	97	97	80	122	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Dichlorodifluoromethane	98	92	80	133	6.3	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Ethylbenzene	105	105	71	136	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Hexachlorobutadiene	105	110	80	122	4.7	20

**Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama**

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Iodomethane	100	103	80	122	3.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Isopropyl Benzene (Cumene)	105	105	51	140	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	m,p-Xylene	102	103	80	120	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Methylene Chloride	104	105	77	129	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Mtbe	99	91	80	120	8.4	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Naphthalene	131	141	74	135	7.4	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	N-Butylbenzene	107	109	76	129	1.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	N-Propylbenzene	103	104	15	162	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	O-Xylene	103	104	80	120	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	P-Isopropyltoluene (Cymene)	104	105	69	148	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Sec-Butylbenzene	103	105	78	124	1.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Styrene	105	107	80	120	1.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Tert-Butylbenzene	102	103	80	120	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Tetrachloroethylene	101	102	80	120	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Toluene	101	102	76	125	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Trans-1,2-Dichloroethene	109	109	80	122	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Trans-1,3-Dichloropropene	95	96	80	120	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Trans-1,4-Dichloro-2-Butene	94	95	77	123	1.1	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Trichloroethene	104	104	80	122	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Trichlorofluoromethane	100	101	80	120	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Vinyl Acetate	115	107	78	123	7.2	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Vinyl Chloride	107	105	74	140	1.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW8260B	Xylenes (Total)	102	104	55	147	1.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9056A	Sulfate	84	100	80	120	17.4	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	90	113	80	120	22.7	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	90	90	80	120	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	90	91	80	120	1.1	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	90	96	80	120	6.5	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	90	97	80	120	7.5	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	96	90	80	120	6.5	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	96	91	80	120	5.3	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	96	96	80	120	0.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	96	97	80	120	1.0	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	96	113	80	120	16.3	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	98	90	80	120	8.5	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	98	91	80	120	7.4	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	98	96	80	120	2.1	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	98	97	80	120	1.0	20

**Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama**

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	98	113	80	120	14.2	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	106	90	80	120	16.3	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	106	91	80	120	15.2	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	106	96	80	120	9.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	106	97	80	120	8.9	20
OLF-G72-PORT1	WG	11/13/18	680-160798-1	SW9060A	Total Organic Carbon	106	113	80	120	6.4	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	RSK-175	Ethane	95	99	80	120	4.1	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	RSK-175	Ethene	95	105	80	120	10.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW6010C	Sodium	88	107	80	120	19.5	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,1,1,2-Tetrachloroethane	84	88	75	125	4.7	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,1,1-Trichloroethane	92	91	80	120	1.1	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,1,2,2-Tetrachloroethane	12	20	74	128	50.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	91	106	72	128	15.2	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,1,2-Trichloroethane	23	34	65	131	38.6	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,1-Dichloroethane	99	99	79	125	0.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,1-Dichloroethene	81	91	80	120	11.6	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,1-Dichloropropene	98	98	74	125	0.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,2,3-Trichlorobenzene	22	39	78	127	55.7	30
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,2,3-Trichloropropane	8	14	61	151	54.5	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,2,4-Trichlorobenzene	34	54	70	132	45.5	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,2,4-Trimethylbenzene	123	125	77	131	1.6	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,2-Dibromo-3-Chloropropane	4	10	80	124	85.7	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,2-Dibromoethane	15	25	59	141	50.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,2-Dichlorobenzene	55	71	77	131	25.4	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,2-Dichloroethane	28	35	80	120	22.2	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,2-Dichloropropane	80	85	75	130	6.1	50
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,3,5-Trimethylbenzene	142	137	73	131	3.6	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,3-Dichlorobenzene	97	107	80	123	9.8	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,3-Dichloropropane	24	35	80	120	37.3	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	1,4-Dichlorobenzene	81	92	80	120	12.7	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	2,2-Dichloropropane	77	75	78	127	2.6	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	2-Butanone (MEK)	-3	0.2	80	120	-228.6	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	2-Chlorotoluene	120	121	72	133	0.8	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	2-Hexanone	4	9	75	133	76.9	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	4-Chlorotoluene	107	108	77	121	0.9	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	4-Methyl-2-Pentanone (MIBK)	5	10	70	141	66.7	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Acetone	-0.1	2	80	120	221.1	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Acrylonitrile	3	5	75	135	50.0	20

**Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama**

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Benzene	98	100	60	154	2.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Bromobenzene	63	74	72	132	16.1	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Bromochloromethane	43	50	73	131	15.1	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Bromodichloromethane	60	68	79	124	12.5	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Bromoform	13	22	77	129	51.4	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Bromomethane	117	143	80	120	20.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Carbon Disulfide	93	96	69	135	3.2	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Carbon Tetrachloride	96	95	20	180	1.0	30
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Chlorobenzene	111	124	73	127	11.1	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Chloroethane	84	119	75	130	34.5	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Chloroform	88	88	80	120	0.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Chloromethane	86	103	77	122	18.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Cis-1,2-Dichloroethene	91	91	50	151	0.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Cis-1,3-Dichloropropene	53	64	79	122	18.8	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Dibromochloromethane	28	40	63	126	35.3	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Dibromomethane	21	29	80	122	32.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Dichlorodifluoromethane	90	113	80	133	22.7	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Ethylbenzene	121	119	71	136	1.7	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Hexachlorobutadiene	303	284	80	122	6.5	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Iodomethane	57	83	80	122	37.1	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Isopropyl Benzene (Cumene)	142	138	51	140	2.9	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	m,p-Xylene	120	119	80	120	0.8	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Methylene Chloride	60	65	77	129	8.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Mtbe	23	29	80	120	23.1	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Naphthalene	8	18	74	135	76.9	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	N-Butylbenzene	305	281	76	129	8.2	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	N-Propylbenzene	145	140	15	162	3.5	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	O-Xylene	113	113	80	120	0.0	30
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	P-Isopropyltoluene (Cymene)	251	233	69	148	7.4	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Sec-Butylbenzene	222	212	78	124	4.6	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Styrene	92	96	80	120	4.3	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Tert-Butylbenzene	172	165	80	120	4.2	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Tetrachloroethylene	112	126	80	120	11.8	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Toluene	101	113	76	125	11.2	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Trans-1,2-Dichloroethene	94	94	80	122	0.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Trans-1,3-Dichloropropene	26	37	80	120	34.9	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Trans-1,4-Dichloro-2-Butene	6	10	77	123	50.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Trichloroethene	99	102	80	122	3.0	20

**Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama**

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Trichlorofluoromethane	60	72	80	120	18.2	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Vinyl Acetate	13	19	78	123	37.5	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Vinyl Chloride	109	130	74	140	17.6	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW8260B	Xylenes (Total)	117	116	55	147	0.9	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9056A	Sulfate	82	84	80	120	2.4	30
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	98	98	80	120	0.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	98	100	80	120	2.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	98	101	80	120	3.0	25
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	98	103	80	120	5.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	100	98	80	120	2.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	100	100	80	120	0.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	100	101	80	120	1.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	100	103	80	120	3.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	102	98	80	120	4.0	30
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	102	100	80	120	2.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	102	101	80	120	1.0	20
OLF-G72-PORT1	WG	5/2/19	680-168493-1,-	SW9060A	Total Organic Carbon	102	103	80	120	1.0	20
OLF-G72-PORT2	WG	5/2/19	680-168493-1,-	SW9056A	Sulfate	100	113	80	120	12.2	20
OLF-G73-PORT2	WG	11/13/18	680-160798-1	SW9056A	Sulfate	89	91	80	120	2.2	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	95	96	80	120	1.0	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	95	97	80	120	2.1	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	95	98	80	120	3.1	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	96	96	80	120	0.0	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	96	97	80	120	1.0	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	96	98	80	120	2.1	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	97	96	80	120	1.0	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	97	97	80	120	0.0	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	97	98	80	120	1.0	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	98	96	80	120	2.1	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	98	97	80	120	1.0	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	98	98	80	120	0.0	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	99	96	80	120	3.1	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	99	97	80	120	2.0	20
OLF-G73-PORT4	WG	5/1/19	680-168493-1,-	SW9060A	Total Organic Carbon	99	98	80	120	1.0	20
OLF-G73-PORT5	WG	5/1/19	680-168493-1,-	SW9056A	Sulfate	96	98	80	120	2.1	20

**Table 4-4: Summary of MS/MSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama**

Station			Delivery			MS	MSD	%R	%R		RPD
Name	Matrix	Sample Date	Group	Method	Parameter Name	%R	%R	LCL	UCL	RPD	Limit

Validation Qualifier:

LCL = Lower control limit

MS = matrix spike

MSD = Matrix spike duplicate

%R = Percent recovery

RPD = Relative percent difference

UCL = Upper control limit

WG = Ground water

Blue text, bold and outlined = Greater than acceptance limits.

Bold and shaded = Less than acceptance limits

Table 4-5: Field Duplicate Cross Reference
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Matrix	Duplicate ID	Parent Station Name	Sample Date	Delivery Group	Method
WG	DUP 304	OLF-G12	11/19/18	680-161061-1	SW6010C
WG	DUP 304	OLF-G12	11/19/18	680-161061-1	SW8260B
WG	DUP 304	OLF-G12	11/19/18	680-161061-1	SW9056A
WG	DUP 305	OLF-G74-PORT1	11/12/18	680-160798-1	SW6010C
WG	DUP 305	OLF-G74-PORT1	11/12/18	680-160798-1	SW8260B
WG	DUP 305	OLF-G74-PORT1	11/12/18	680-160798-1	SW9056A
WG	DUP 305	OLF-G74-PORT1	11/12/18	680-160798-1	SW9060A
WG	DUP 306	OLF-G77	11/13/18	680-160798-1	SW6010C
WG	DUP 306	OLF-G77	11/13/18	680-160798-1	SW8260B
WG	DUP 306	OLF-G77	11/13/18	680-160798-1	SW9056A
WG	DUP 306	OLF-G77	11/13/18	680-160798-1	SW9060A
WG	DUP 306	OLF-G77	11/13/18	680-160798-1	RSK-175
WG	DUP302	OLF-G31	11/26/18	680-161411-1	SW8260B
WG	DUP303	OLF-G20	11/13/18	680-160798-1	SW6010C
WG	DUP303	OLF-G20	11/13/18	680-160798-1	SW8260B
WG	DUP303	OLF-G20	11/13/18	680-160798-1	SW9056A
WG	DUP305	OLF-G74-PORT1	11/12/18	680-160798-1	SW8260B
WG	DUP319	OLF-G75-S3	5/13/19	680-169087-1	SW8260B
WG	DUP320	OLF-G71-PORT2	5/6/19	680-168798-1	SW6010C
WG	DUP320	OLF-G71-PORT2	5/6/19	680-168798-1	SW8260B
WG	DUP320	OLF-G71-PORT2	5/6/19	680-168798-1	SW9056A
WG	DUP321	OLF-G71-PORT1	5/6/19	680-168798-1	SW6010C
WG	DUP321	OLF-G71-PORT1	5/6/19	680-168798-1	SW8260B
WG	DUP321	OLF-G71-PORT1	5/6/19	680-168798-1	SW9056A
WG	DUP322	OLF-G74-PORT2	5/1/19	680-168493-1,-	SW6010C
WG	DUP322	OLF-G74-PORT2	5/1/19	680-168493-1,-	SW8260B
WG	DUP322	OLF-G74-PORT2	5/1/19	680-168493-1,-	SW9056A
WG	DUP322	OLF-G74-PORT2	5/1/19	680-168493-1,-	SW9060A
WG	DUP323	OLF-G77	5/6/19	680-168800-1	RSK-175
WG	DUP323	OLF-G77	5/6/19	680-168800-1	SW6010C
WG	DUP323	OLF-G77	5/6/19	680-168800-1	SW8260B
WG	DUP323	OLF-G77	5/6/19	680-168800-1	SW9056A
WG	DUP323	OLF-G77	5/6/19	680-168800-1	SW9060A

Notes:

ID = Identification

WG = Groundwater

**Table 4-6: Comparison of Investigative and Field Duplicate Sample Detections
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama**

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	FD		NS		Units	RPD	MDL	RL
						Value	Lab Flag	Value	Lab Flag				
OLF-G20	WG	11/13/18	680-160798-1	SW9056A	Sulfate	2.2		1.2		mg/L	58.8	0.4	1
OLF-G71-PORT2	WG	5/6/19	680-168798-1	SW8260B	Trichloroethene	17		10		µg/L	51.9	0.48	1
OLF-G71-PORT2	WG	5/6/19	680-168798-1	SW8260B	Vinyl Chloride	4.3		2.3		µg/L	60.6	0.5	1
OLF-G74-PORT2	WG	5/1/19	680-168493-1,- 2	SW6010C	Sodium	3400		7800		µg/L	78.6	480	1000
OLF-G74-PORT2	WG	5/1/19	680-168493-1,- 2	SW8260B	1,1,2-Trichloroethane	0.48	J	2.3	H	µg/L	130.9	0.33	1
OLF-G74-PORT2	WG	5/1/19	680-168493-1,- 2	SW8260B	Trichloroethene	32	B	76	H	µg/L	81.5	0.48	1
OLF-G74-PORT2	WG	5/1/19	680-168493-1,- 2	SW9056A	Sulfate	15		0.62	J	mg/L	184.1	0.4	1

Notes:

FD = Field Duplicate

MDL = Method Detection Limit

mg/L = milligrams per liter

NS = Normal Sample

RL = Reporting Limit

RPD = Relative Percent Difference

TOC = Total Organic Carbon

WG = Ground Water

Bold and shaded = Outside acceptance limits

Lab Flag:

J = Result is estimated; detected between the method detection limit
and the reporting limit.

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
RSK-175	680-168493-1,-2	5/13/19	680-570028	W	Ethane	97	98	50.0	150	1.0	20
RSK-175	680-168493-1,-2	5/13/19	680-570028	W	Ethene	96	97	50.0	150	1.0	20
RSK-175	680-168493-1,-2	5/13/19	680-570028	W	Methane	98	98	50.0	150	0	20
RSK-175	680-168493-1,-2	5/13/19	680-570028	W	Methane	100	96	50.0	150	4.1	20
RSK-175	680-168493-1,-2	5/14/19	680-570190	W	Ethane	105	99	50.0	150	5.9	20
RSK-175	680-168493-1,-2	5/14/19	680-570190	W	Ethene	102	99	50.0	150	3.0	20
RSK-175	680-168493-1,-2	5/14/19	680-570190	W	Methane	101	100	50.0	150	1.0	20
RSK-175	680-168493-1,-2	5/14/19	680-570190	W	Methane	100	102	50.0	150	2.0	20
RSK-175	680-168800-1	5/16/19	680-570592	W	Ethane	97	91	50.0	150	6.4	20
RSK-175	680-168800-1	5/16/19	680-570592	W	Ethene	95	90	50.0	150	5.4	20
RSK-175	680-168800-1	5/16/19	680-570592	W	Methane	92	87	50.0	150	5.6	20
RSK-175	680-160798-1	11/27/18	680-548985	W	Ethane	91	89	50.0	150	2.2	20
RSK-175	680-160798-1	11/27/18	680-548985	W	Ethene	86	86	50.0	150	0	20
RSK-175	680-160798-1	11/27/18	680-548985	W	Methane	94	91	50.0	150	3.2	20
RSK-175	680-160798-1	11/27/18	680-548985	W	Methane	94	97	50.0	150	3.1	20
RSK-175	680-160798-1	11/27/18	680-549162	W	Ethane	89	86	50.0	150	3.4	20
RSK-175	680-160798-1	11/27/18	680-549162	W	Ethene	87	84	50.0	150	3.5	20
RSK-175	680-160798-1	11/27/18	680-549162	W	Methane	90	88	50.0	150	2.2	20
RSK-175	680-160798-1	11/27/18	680-549162	W	Methane	95	92	50.0	150	3.2	20
RSK-175	680-161411-1	12/4/18	680-550009	W	Ethane	95	114	50.0	150	18	20
RSK-175	680-161411-1	12/4/18	680-550009	W	Ethene	94	111	50.0	150	17	20
RSK-175	680-161411-1	12/4/18	680-550009	W	Methane	99	120	50.0	150	19	20
SW6010C	680-169087-1	5/29/19	680-572170	W	Sodium	86	92	80.0	120	6.7	20
SW6010C	680-160919-1	11/29/18	680-549507	W	Sodium	94	92	80.0	120	2.2	20
SW6010C	680-168929-1	5/23/19	680-571720	W	Sodium	101	99	80.0	120	2.0	20
SW6010C	680-168493-1,-2	5/9/19	680-569839	W	Sodium	98	98	80.0	120	0	20
SW6010C	680-168493-1,-2	5/14/19	680-570402	W	Sodium	97	--	80.0	120	NA	20
SW6010C	680-168798-1	5/20/19	680-571174	W	Sodium	96	--	80.0	120	NA	20
SW6010C	680-168800-1	5/20/19	680-571174	W	Sodium	96	--	80.0	120	NA	20
SW6010C	680-160798-1	11/29/18	680-549406	W	Sodium	85	--	80.0	120	NA	20
SW6010C	680-160798-1	11/29/18	680-549561	W	Sodium	97	--	80.0	120	NA	20
SW6010C	680-161061-1	11/30/18	680-549616	W	Sodium	91	--	80.0	120	NA	20
SW6010C	680-161411-1	12/11/18	680-551128	W	Sodium	96	--	80.0	120	NA	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,1,1,2-Tetrachloroethane	104	102	70.0	130	1.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,1,1-Trichloroethane	107	102	70.0	127	4.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,1,2,2-Tetrachloroethane	109	97	68.0	129	12	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	129	100	54.0	154	25	30
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,1,2-Trichloroethane	100	100	79.0	136	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,1-Dichloroethane	109	106	80.0	133	2.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,1-Dichloroethene	103	98	75.0	125	5.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,1-Dichloropropene	106	100	76.0	135	5.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,2,3-Trichlorobenzene	106	102	75.0	133	3.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,2,3-Trichloropropane	108	102	65.0	139	5.7	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,2,4-Trichlorobenzene	101	99	80.0	130	2.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Trans-1,2-Dichloroethene	107	97	76.0	123	9.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Trans-1,3-Dichloropropene	98	98	75.0	132	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Trans-1,4-Dichloro-2-Butene	104	105	80.0	127	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Trichloroethene	109	97	73.0	120	12	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Trichlorofluoromethane	121	107	67.0	132	12	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Vinyl Chloride	117	97	77.0	127	19	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Vinyl Acetate	125	108	78.0	121	15	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Xylenes (Total)	101	96	75.0	122	5.1	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,2,4-Trimethylbenzene	98	95	80.0	133	3.1	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,2-Dibromo-3-Chloropropane	118	106	74.0	123	11	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,2-Dibromoethane	104	97	62.0	134	7.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,2-Dichlorobenzene	103	98	45.0	150	5.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,2-Dichloroethane	107	107	45.0	150	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,2-Dichloropropane	108	106	79.0	121	1.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,3,5-Trimethylbenzene	97	97	73.0	127	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,3-Dichlorobenzene	101	107	59.0	150	5.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,3-Dichloropropane	105	90	51.0	157	15	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	1,4-Dichlorobenzene	102	104	50.0	150	1.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	2,2-Dichloropropane	101	104	79.0	126	2.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	2-Butanone (MEK)	119	102	74.0	123	15	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	2-Chlorotoluene	99	101	78.0	127	2.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	2-Hexanone	114	93	70.0	130	20	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	4-Chlorotoluene	96	106	72.0	136	9.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	4-Methyl-2-Pentanone (MIBK)	112	123	35.0	153	9.4	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Acetone	107	97	74.0	123	9.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Acrylonitrile	114	104	71.0	132	9.2	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Benzene	106	101	80.0	127	4.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Bromobenzene	101	105	72.0	129	3.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Bromodichloromethane	99	114	74.0	127	14	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	4-Bromofluorobenzene	100	99	58.0	135	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Bromoform	106	109	73.0	133	2.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Bromomethane	106	106	73.0	132	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Carbon Disulfide	107	104	74.0	145	2.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Carbon Tetrachloride	110	107	76.0	132	2.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Chlorobenzene	104	102	59.0	134	1.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Bromochloromethane	105	101	79.0	120	3.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Chloroethane	113	90	78.0	133	23	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Chloroform	101	98	70.0	130	3.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Chloromethane	117	105	77.0	126	11	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Cis-1,2-Dichloroethene	109	99	69.0	118	9.6	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Cis-1,3-Dichloropropene	105	107	59.0	129	1.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Dibromochloromethane	105	98	65.0	149	6.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Dibromomethane	102	99	78.0	126	3.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Dichlorodifluoromethane	110	98	75.0	127	12	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Ethylbenzene	101	103	78.0	125	2.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Hexachlorobutadiene	101	94	78.0	125	7.2	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Isopropyl Benzene (Cumene)	102	99	76.0	130	3.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Mtbe	105	102	76.0	125	2.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Methylene Chloride	100	102	80.0	129	2.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Iodomethane	107	102	80.0	125	4.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	m,p-Xylene	101	97	78.0	134	4.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Naphthalene	110	105	74.0	131	4.7	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	N-Butylbenzene	107	104	50.0	150	2.8	30
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	N-Propylbenzene	96	96	67.0	128	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	O-Xylene	101	97	68.0	133	4.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	P-Isopropyltoluene (Cymene)	109	97	36.0	176	12	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Sec-Butylbenzene	103	98	73.0	134	5.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Styrene	104	104	79.0	122	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Tert-Butylbenzene	98	104	70.0	130	5.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Tetrachloroethylene	110	105	70.0	127	4.7	20
SW8260B	680-168493-1,-2	5/15/19	680-570450	W	Toluene	106	125	68.0	129	16	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,1,1,2-Tetrachloroethane	107	110	54.0	154	2.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,1,1-Trichloroethane	104	104	79.0	136	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,1,2,2-Tetrachloroethane	95	101	80.0	133	6.1	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	100	102	75.0	125	2.0	30
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,1,2-Trichloroethane	105	108	76.0	135	2.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,1-Dichloroethane	104	104	75.0	133	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,1-Dichloroethene	100	101	65.0	139	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,1-Dichloropropene	102	103	80.0	130	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,2,3-Trichlorobenzene	96	101	76.0	123	5.1	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,2,3-Trichloropropane	102	109	75.0	132	6.6	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,2,4-Trichlorobenzene	97	97	80.0	127	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,2,4-Trimethylbenzene	98	100	73.0	120	2.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,2-Dibromo-3-Chloropropane	106	108	67.0	132	1.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,2-Dibromoethane	103	108	77.0	127	4.7	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,2-Dichlorobenzene	100	105	78.0	121	4.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,2-Dichloroethane	104	107	75.0	122	2.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,2-Dichloropropane	99	101	80.0	133	2.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,3,5-Trimethylbenzene	101	102	74.0	123	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,3-Dichlorobenzene	99	99	62.0	134	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,3-Dichloropropane	103	107	45.0	150	3.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	1,4-Dichlorobenzene	98	100	45.0	150	2.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	2,2-Dichloropropane	78	81	79.0	121	3.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	2-Butanone (MEK)	106	106	73.0	127	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	2-Chlorotoluene	99	102	59.0	150	3.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	2-Hexanone	99	106	51.0	157	6.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	4-Chlorotoluene	98	100	50.0	150	2.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	4-Methyl-2-Pentanone (MIBK)	102	107	79.0	126	4.8	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Acetone	99	108	74.0	123	8.7	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Acrylonitrile	94	103	78.0	127	9.1	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Benzene	102	104	70.0	130	1.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Bromobenzene	98	101	72.0	136	3.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Bromodichloromethane	102	107	35.0	153	4.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	4-Bromofluorobenzene	97	100	74.0	123	3.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Bromoform	104	109	71.0	132	4.7	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Bromomethane	94	103	80.0	127	9.1	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Carbon Disulfide	99	99	72.0	129	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Carbon Tetrachloride	105	106	74.0	127	0.95	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Chlorobenzene	100	101	58.0	135	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Bromochloromethane	103	107	73.0	133	3.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Chloroethane	100	99	73.0	132	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Chloroform	106	107	74.0	145	0.94	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Chloromethane	99	99	76.0	132	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Cis-1,2-Dichloroethene	97	99	59.0	134	2.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Cis-1,3-Dichloropropene	103	107	79.0	120	3.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Dibromochloromethane	105	109	78.0	133	3.7	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Dibromomethane	101	107	70.0	130	5.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Dichlorodifluoromethane	111	111	77.0	126	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Ethylbenzene	100	100	69.0	118	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Hexachlorobutadiene	92	92	59.0	129	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Isopropyl Benzene (Cumene)	100	101	65.0	149	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Mtbe	100	105	78.0	126	4.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Methylene Chloride	97	99	75.0	127	2.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Iodomethane	97	98	78.0	125	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	m,p-Xylene	101	101	78.0	125	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Naphthalene	102	107	76.0	130	4.8	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	N-Butylbenzene	98	98	76.0	125	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	N-Propylbenzene	99	101	80.0	129	2.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	O-Xylene	98	101	80.0	125	3.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	P-Isopropyltoluene (Cymene)	99	100	78.0	134	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Sec-Butylbenzene	100	100	74.0	131	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Styrene	100	103	50.0	150	3.0	30
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Tert-Butylbenzene	101	102	67.0	128	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Tetrachloroethylene	103	103	68.0	133	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Toluene	104	104	36.0	176	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Trans-1,2-Dichloroethene	99	99	73.0	134	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Trans-1,3-Dichloropropene	107	113	79.0	122	5.5	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Trans-1,4-Dichloro-2-Butene	96	101	70.0	130	5.1	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Trichloroethene	106	108	70.0	127	1.9	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Trichlorofluoromethane	102	103	68.0	129	1.0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Vinyl Chloride	96	96	54.0	154	0	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Vinyl Acetate	73	78	79.0	136	6.6	20
SW8260B	680-168493-1,-2	5/15/19	680-570474	W	Xylenes (Total)	100	101	80.0	133	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,1,1,2-Tetrachloroethane	98	100	75.0	125	2.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,1,1-Trichloroethane	96	97	76.0	135	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,1,2,2-Tetrachloroethane	92	91	75.0	133	1.1	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	109	109	65.0	139	0	30
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,1,2-Trichloroethane	93	91	80.0	130	2.2	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,1-Dichloroethane	99	100	76.0	123	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,1-Dichloroethene	97	95	75.0	132	2.1	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,1-Dichloropropene	103	102	80.0	127	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,2,3-Trichlorobenzene	101	102	73.0	120	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,2,3-Trichloropropane	99	96	67.0	132	3.1	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,2,4-Trichlorobenzene	97	97	77.0	127	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,2,4-Trimethylbenzene	99	100	78.0	121	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,2-Dibromo-3-Chloropropane	92	90	75.0	122	2.2	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,2-Dibromoethane	98	96	80.0	133	2.1	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,2-Dichlorobenzene	99	99	74.0	123	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,2-Dichloroethane	99	98	62.0	134	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,2-Dichloropropane	98	97	45.0	150	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,3,5-Trimethylbenzene	100	100	45.0	150	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,3-Dichlorobenzene	97	98	79.0	121	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,3-Dichloropropane	99	98	73.0	127	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	1,4-Dichlorobenzene	97	98	59.0	150	1.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	2,2-Dichloropropane	102	101	51.0	157	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	2-Butanone (MEK)	104	96	50.0	150	8.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	2-Chlorotoluene	99	100	79.0	126	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	2-Hexanone	98	93	74.0	123	5.2	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	4-Chlorotoluene	99	99	78.0	127	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	4-Methyl-2-Pentanone (MIBK)	99	94	70.0	130	5.2	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Acetone	101	94	72.0	136	7.2	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Acrylonitrile	98	92	35.0	153	6.3	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Benzene	99	99	74.0	123	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Bromobenzene	101	101	71.0	132	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Bromodichloromethane	91	90	80.0	127	1.1	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	4-Bromofluorobenzene	93	93	72.0	129	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Bromoform	99	99	74.0	127	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Bromomethane	86	89	58.0	135	3.4	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Carbon Disulfide	103	100	73.0	133	3.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Carbon Tetrachloride	103	103	73.0	132	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Chlorobenzene	100	101	74.0	145	1	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Bromochloromethane	100	98	76.0	132	2.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Chloroethane	104	102	59.0	134	1.9	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Chloroform	91	92	79.0	120	1.1	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Chloromethane	88	89	78.0	133	1.1	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Cis-1,2-Dichloroethene	100	99	70.0	130	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Cis-1,3-Dichloropropene	99	99	77.0	126	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Dibromochloromethane	98	97	69.0	118	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Dibromomethane	93	91	59.0	129	2.2	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Dichlorodifluoromethane	92	94	65.0	149	2.2	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Ethylbenzene	99	100	78.0	126	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Hexachlorobutadiene	116	113	75.0	127	2.6	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Isopropyl Benzene (Cumene)	103	103	78.0	125	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Mtbe	95	94	78.0	125	1.1	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Methylene Chloride	92	91	76.0	130	1.1	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Iodomethane	101	101	76.0	125	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	m,p-Xylene	101	101	80.0	129	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Naphthalene	96	95	80.0	125	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	N-Butylbenzene	109	109	78.0	134	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	N-Propylbenzene	100	100	74.0	131	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	O-Xylene	99	100	50.0	150	1.0	30
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	P-Isopropyltoluene (Cymene)	107	107	67.0	128	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Sec-Butylbenzene	111	110	68.0	133	0.90	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Styrene	102	102	36.0	176	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Tert-Butylbenzene	102	103	73.0	134	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Tetrachloroethylene	108	109	79.0	122	0.92	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Toluene	101	101	70.0	130	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Trans-1,2-Dichloroethene	96	95	70.0	127	1.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Trans-1,3-Dichloropropene	99	97	68.0	129	2.0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Trans-1,4-Dichloro-2-Butene	94	94	54.0	154	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Trichloroethene	103	103	79.0	136	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Trichlorofluoromethane	107	102	80.0	133	4.8	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Vinyl Chloride	101	101	75.0	125	0	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Vinyl Acetate	108	104	76.0	135	3.8	20
SW8260B	680-168493-1,-2	5/16/19	680-570605	W	Xylenes (Total)	100	100	75.0	133	0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,1,1,2-Tetrachloroethane	105	108	65.0	139	2.8	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,1,1-Trichloroethane	109	112	80.0	130	2.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,1,2,2-Tetrachloroethane	99	103	76.0	123	4.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	111	117	75.0	132	5.3	30
SW8260B	680-168798-1	5/18/19	680-570940	W	1,1,2-Trichloroethane	106	111	80.0	127	4.6	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,1-Dichloroethane	104	109	73.0	120	4.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,1-Dichloroethene	110	112	67.0	132	1.8	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,1-Dichloropropene	103	109	77.0	127	5.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,2,3-Trichlorobenzene	100	100	78.0	121	0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,2,3-Trichloropropane	105	107	75.0	122	1.9	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,2,4-Trichlorobenzene	97	100	80.0	133	3.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,2,4-Trimethylbenzene	98	100	74.0	123	2.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,2-Dibromo-3-Chloropropane	112	109	62.0	134	2.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,2-Dibromoethane	106	108	45.0	150	1.9	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,2-Dichlorobenzene	95	94	45.0	150	1.1	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168798-1	5/18/19	680-570940	W	1,2-Dichloroethane	104	109	79.0	121	4.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,2-Dichloropropane	102	105	73.0	127	2.9	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,3,5-Trimethylbenzene	99	100	59.0	150	1.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,3-Dichlorobenzene	95	94	51.0	157	1.1	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,3-Dichloropropane	104	106	50.0	150	1.9	20
SW8260B	680-168798-1	5/18/19	680-570940	W	1,4-Dichlorobenzene	98	95	79.0	126	3.1	20
SW8260B	680-168798-1	5/18/19	680-570940	W	2,2-Dichloropropane	112	117	74.0	123	4.4	20
SW8260B	680-168798-1	5/18/19	680-570940	W	2-Butanone (MEK)	113	115	78.0	127	1.8	20
SW8260B	680-168798-1	5/18/19	680-570940	W	2-Chlorotoluene	98	99	70.0	130	1.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	2-Hexanone	106	106	72.0	136	0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	4-Chlorotoluene	98	98	35.0	153	0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	4-Methyl-2-Pentanone (MIBK)	106	107	74.0	123	1	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Acetone	104	107	71.0	132	2.8	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Acrylonitrile	103	105	80.0	127	1.9	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Benzene	103	105	72.0	129	1.9	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Bromobenzene	98	103	74.0	127	5.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Bromodichloromethane	107	110	58.0	135	2.8	20
SW8260B	680-168798-1	5/18/19	680-570940	W	4-Bromofluorobenzene	92	91	73.0	133	1.1	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Bromoform	106	110	73.0	132	3.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Bromomethane	103	94	74.0	145	9.1	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Carbon Disulfide	103	105	76.0	132	1.9	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Carbon Tetrachloride	112	114	59.0	134	1.8	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Chlorobenzene	99	101	79.0	120	2.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Bromochloromethane	104	105	78.0	133	1.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Chloroethane	101	103	70.0	130	2.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Chloroform	109	110	77.0	126	1	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Chloromethane	106	107	69.0	118	0.94	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Cis-1,2-Dichloroethene	105	110	59.0	129	4.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Cis-1,3-Dichloropropene	110	114	65.0	149	3.6	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Dibromochloromethane	110	113	78.0	126	2.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Dibromomethane	106	111	75.0	127	4.6	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Dichlorodifluoromethane	108	111	78.0	125	2.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Ethylbenzene	98	100	78.0	125	2.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168798-1	5/18/19	680-570940	W	Hexachlorobutadiene	100	102	76.0	130	2.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Isopropyl Benzene (Cumene)	100	102	76.0	125	2.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Mtbe	106	108	80.0	129	1.9	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Methylene Chloride	99	102	80.0	125	3.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Iodomethane	102	98	78.0	134	4.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	m,p-Xylene	98	100	74.0	131	2.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Naphthalene	104	104	50.0	150	0	30
SW8260B	680-168798-1	5/18/19	680-570940	W	N-Butylbenzene	99	99	67.0	128	0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	N-Propylbenzene	99	101	68.0	133	2.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	O-Xylene	98	100	36.0	176	2.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	P-Isopropyltoluene (Cymene)	98	98	73.0	134	0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Sec-Butylbenzene	100	103	79.0	122	3.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Styrene	99	102	70.0	130	3.0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Tert-Butylbenzene	101	104	70.0	127	2.9	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Tetrachloroethylene	107	110	68.0	129	2.8	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Toluene	105	105	54.0	154	0	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Trans-1,2-Dichloroethene	105	108	79.0	136	2.8	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Trans-1,3-Dichloropropene	109	112	80.0	133	2.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Trans-1,4-Dichloro-2-Butene	110	113	75.0	125	2.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Trichloroethene	106	108	76.0	135	1.9	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Trichlorofluoromethane	111	114	75.0	133	2.7	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Vinyl Chloride	103	104	65.0	139	1	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Vinyl Acetate	105	111	80.0	130	5.6	20
SW8260B	680-168798-1	5/18/19	680-570940	W	Xylenes (Total)	98	100	76.0	123	2.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,1,1,2-Tetrachloroethane	102	102	75.0	132	0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,1,1-Trichloroethane	100	106	80.0	127	5.8	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,1,2,2-Tetrachloroethane	107	104	73.0	120	2.8	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	105	114	67.0	132	8.2	30
SW8260B	680-168798-1	5/19/19	680-570979	W	1,1,2-Trichloroethane	105	107	77.0	127	1.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,1-Dichloroethane	97	103	78.0	121	6.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,1-Dichloroethene	100	108	75.0	122	7.7	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,1-Dichloropropene	99	102	80.0	133	3.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,2,3-Trichlorobenzene	116	116	74.0	123	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168798-1	5/19/19	680-570979	W	1,2,3-Trichloropropane	105	101	62.0	134	3.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,2,4-Trichlorobenzene	113	114	45.0	150	1	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,2,4-Trimethylbenzene	104	102	45.0	150	1.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,2-Dibromo-3-Chloropropane	105	110	79.0	121	4.7	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,2-Dibromoethane	107	110	73.0	127	2.8	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,2-Dichlorobenzene	95	94	59.0	150	1.1	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,2-Dichloroethane	103	106	51.0	157	2.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,2-Dichloropropane	102	103	50.0	150	1	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,3,5-Trimethylbenzene	105	102	79.0	126	2.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,3-Dichlorobenzene	95	96	74.0	123	1.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,3-Dichloropropane	103	105	78.0	127	1.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	1,4-Dichlorobenzene	95	95	70.0	130	0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	2,2-Dichloropropane	115	122	72.0	136	5.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	2-Butanone (MEK)	99	100	35.0	153	1.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	2-Chlorotoluene	102	99	74.0	123	3.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	2-Hexanone	101	102	71.0	132	1.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	4-Chlorotoluene	103	101	80.0	127	2.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	4-Methyl-2-Pentanone (MIBK)	99	99	72.0	129	0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Acetone	93	101	74.0	127	8.2	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Acrylonitrile	100	106	58.0	135	5.8	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Benzene	97	100	73.0	133	3.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Bromobenzene	106	104	73.0	132	1.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Bromodichloromethane	108	111	74.0	145	2.7	30
SW8260B	680-168798-1	5/19/19	680-570979	W	4-Bromofluorobenzene	91	94	76.0	132	3.2	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Bromoform	110	111	59.0	134	0.90	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Bromomethane	85	84	79.0	120	1.2	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Carbon Disulfide	99	107	78.0	133	7.8	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Carbon Tetrachloride	102	108	70.0	130	5.7	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Chlorobenzene	99	99	77.0	126	0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Bromochloromethane	102	104	69.0	118	1.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Chloroethane	81	83	59.0	129	2.4	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Chloroform	101	103	65.0	149	2.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Chloromethane	94	100	78.0	126	6.2	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168798-1	5/19/19	680-570979	W	Cis-1,2-Dichloroethene	99	102	75.0	127	3.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Cis-1,3-Dichloropropene	107	107	78.0	125	0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Dibromochloromethane	108	114	78.0	125	5.4	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Dibromomethane	105	105	76.0	130	0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Dichlorodifluoromethane	89	97	76.0	125	8.6	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Ethylbenzene	100	98	80.0	129	2.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Hexachlorobutadiene	120	123	80.0	125	2.5	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Isopropyl Benzene (Cumene)	103	101	78.0	134	2.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Mtbe	102	110	74.0	131	7.5	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Methylene Chloride	97	105	50.0	150	7.9	30
SW8260B	680-168798-1	5/19/19	680-570979	W	Iodomethane	104	115	67.0	128	10	20
SW8260B	680-168798-1	5/19/19	680-570979	W	m,p-Xylene	100	100	68.0	133	0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Naphthalene	109	108	36.0	176	1	20
SW8260B	680-168798-1	5/19/19	680-570979	W	N-Butylbenzene	103	102	73.0	134	1.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	N-Propylbenzene	104	101	79.0	122	2.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	O-Xylene	102	100	70.0	130	2.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	P-Isopropyltoluene (Cymene)	100	101	70.0	127	1.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Sec-Butylbenzene	104	101	68.0	129	2.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Styrene	106	103	54.0	154	2.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Tert-Butylbenzene	102	100	79.0	136	2.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Tetrachloroethylene	108	113	80.0	133	4.5	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Toluene	103	102	75.0	125	1.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Trans-1,2-Dichloroethene	104	111	76.0	135	6.5	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Trans-1,3-Dichloropropene	103	103	75.0	133	0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Trans-1,4-Dichloro-2-Butene	113	109	65.0	139	3.6	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Trichloroethene	102	105	80.0	130	2.9	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Trichlorofluoromethane	96	107	76.0	123	11	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Vinyl Chloride	97	103	75.0	132	6.0	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Vinyl Acetate	137	148	80.0	127	7.7	20
SW8260B	680-168798-1	5/19/19	680-570979	W	Xylenes (Total)	101	100	73.0	120	1.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,1,1,2-Tetrachloroethane	104	109	67.0	132	4.7	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,1,1-Trichloroethane	103	102	77.0	127	1.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,1,2,2-Tetrachloroethane	96	101	78.0	121	5.1	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168798-1	5/21/19	680-571246	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	102	91	75.0	122	11	30
SW8260B	680-168798-1	5/21/19	680-571246	W	1,1,2-Trichloroethane	104	106	80.0	133	1.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,1-Dichloroethane	101	101	74.0	123	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,1-Dichloroethene	104	100	62.0	134	3.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,1-Dichloropropene	100	97	45.0	150	3.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,2,3-Trichlorobenzene	99	98	45.0	150	1.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,2,3-Trichloropropane	104	108	79.0	121	3.8	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,2,4-Trichlorobenzene	96	95	73.0	127	1.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,2,4-Trimethylbenzene	100	98	59.0	150	2.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,2-Dibromo-3-Chloropropane	107	111	51.0	157	3.7	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,2-Dibromoethane	101	106	50.0	150	4.8	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,2-Dichlorobenzene	97	99	79.0	126	2.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,2-Dichloroethane	101	104	74.0	123	2.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,2-Dichloropropane	98	100	78.0	127	2.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,3,5-Trimethylbenzene	100	99	70.0	130	1.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,3-Dichlorobenzene	96	97	72.0	136	1.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,3-Dichloropropane	101	104	35.0	153	2.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	1,4-Dichlorobenzene	97	97	74.0	123	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	2,2-Dichloropropane	82	82	71.0	132	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	2-Butanone (MEK)	107	112	80.0	127	4.6	20
SW8260B	680-168798-1	5/21/19	680-571246	W	2-Chlorotoluene	99	100	72.0	129	1.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	2-Hexanone	99	106	74.0	127	6.8	20
SW8260B	680-168798-1	5/21/19	680-571246	W	4-Chlorotoluene	98	98	58.0	135	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	4-Methyl-2-Pentanone (MIBK)	101	107	73.0	133	5.8	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Acetone	99	105	73.0	132	5.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Acrylonitrile	96	102	74.0	145	6.1	30
SW8260B	680-168798-1	5/21/19	680-571246	W	Benzene	100	99	76.0	132	1.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Bromobenzene	101	103	59.0	134	2.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Bromodichloromethane	104	108	79.0	120	3.8	20
SW8260B	680-168798-1	5/21/19	680-571246	W	4-Bromofluorobenzene	94	95	78.0	133	1.1	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Bromoform	106	109	70.0	130	2.8	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Bromomethane	81	77	77.0	126	5.1	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Carbon Disulfide	97	96	69.0	118	1.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168798-1	5/21/19	680-571246	W	Carbon Tetrachloride	106	104	59.0	129	1.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Chlorobenzene	100	100	65.0	149	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Bromochloromethane	100	102	78.0	126	2.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Chloroethane	97	97	75.0	127	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Chloroform	103	106	78.0	125	2.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Chloromethane	92	91	78.0	125	1.1	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Cis-1,2-Dichloroethene	97	99	76.0	130	2.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Cis-1,3-Dichloropropene	102	104	76.0	125	1.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Dibromochloromethane	107	109	80.0	129	1.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Dibromomethane	101	105	80.0	125	3.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Dichlorodifluoromethane	86	77	78.0	134	11	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Ethylbenzene	100	100	74.0	131	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Hexachlorobutadiene	96	90	50.0	150	6.5	30
SW8260B	680-168798-1	5/21/19	680-571246	W	Isopropyl Benzene (Cumene)	102	102	67.0	128	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Mtbe	100	104	68.0	133	3.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Methylene Chloride	96	99	36.0	176	3.1	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Iodomethane	97	97	73.0	134	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	m,p-Xylene	99	99	79.0	122	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Naphthalene	103	104	70.0	130	1.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	N-Butylbenzene	96	91	70.0	127	5.3	20
SW8260B	680-168798-1	5/21/19	680-571246	W	N-Propylbenzene	99	98	68.0	129	1.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	O-Xylene	100	100	54.0	154	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	P-Isopropyltoluene (Cymene)	99	95	79.0	136	4.1	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Sec-Butylbenzene	101	98	80.0	133	3.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Styrene	101	102	75.0	125	1	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Tert-Butylbenzene	101	101	76.0	135	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Tetrachloroethylene	104	101	75.0	133	2.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Toluene	102	103	65.0	139	0.98	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Trans-1,2-Dichloroethene	100	100	80.0	130	0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Trans-1,3-Dichloropropene	100	104	76.0	123	3.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Trans-1,4-Dichloro-2-Butene	97	101	75.0	132	4.0	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Trichloroethene	106	103	80.0	127	2.9	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Trichlorofluoromethane	103	96	73.0	120	7.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168798-1	5/21/19	680-571246	W	Vinyl Chloride	93	91	67.0	132	2.2	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Vinyl Acetate	84	88	77.0	127	4.7	20
SW8260B	680-168798-1	5/21/19	680-571246	W	Xylenes (Total)	100	100	78.0	121	0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,1,1,2-Tetrachloroethane	107	108	75.0	122	1	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,1,1-Trichloroethane	108	113	80.0	133	4.5	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,1,2,2-Tetrachloroethane	99	101	74.0	123	2.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	105	110	62.0	134	4.7	30
SW8260B	680-168800-1	5/19/19	680-570981	W	1,1,2-Trichloroethane	110	111	45.0	150	1	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,1-Dichloroethane	108	109	45.0	150	1	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,1-Dichloroethene	111	113	79.0	121	1.8	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,1-Dichloropropene	106	108	73.0	127	1.9	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,2,3-Trichlorobenzene	98	101	59.0	150	3.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,2,3-Trichloropropane	104	107	51.0	157	2.8	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,2,4-Trichlorobenzene	98	100	50.0	150	2.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,2,4-Trimethylbenzene	99	100	79.0	126	1.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,2-Dibromo-3-Chloropropane	104	109	74.0	123	4.7	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,2-Dibromoethane	110	110	78.0	127	0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,2-Dichlorobenzene	96	97	70.0	130	1.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,2-Dichloroethane	107	110	72.0	136	2.8	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,2-Dichloropropane	104	106	35.0	153	1.9	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,3,5-Trimethylbenzene	99	101	74.0	123	2.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,3-Dichlorobenzene	95	97	71.0	132	2.1	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,3-Dichloropropane	107	108	80.0	127	1	20
SW8260B	680-168800-1	5/19/19	680-570981	W	1,4-Dichlorobenzene	96	98	72.0	129	2.1	20
SW8260B	680-168800-1	5/19/19	680-570981	W	2,2-Dichloropropane	116	119	74.0	127	2.6	20
SW8260B	680-168800-1	5/19/19	680-570981	W	2-Butanone (MEK)	109	115	58.0	135	5.4	20
SW8260B	680-168800-1	5/19/19	680-570981	W	2-Chlorotoluene	99	98	73.0	133	1.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	2-Hexanone	104	106	73.0	132	1.9	20
SW8260B	680-168800-1	5/19/19	680-570981	W	4-Bromofluorobenzene	92	95	74.0	145	3.2	30
SW8260B	680-168800-1	5/19/19	680-570981	W	4-Chlorotoluene	98	99	76.0	132	1.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	4-Methyl-2-Pentanone (MIBK)	106	107	59.0	134	0.94	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Acetone	101	105	79.0	120	3.9	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Acrylonitrile	103	103	78.0	133	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168800-1	5/19/19	680-570981	W	Benzene	106	107	70.0	130	0.94	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Bromobenzene	101	101	77.0	126	0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Bromochloromethane	107	109	69.0	118	1.9	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Bromodichloromethane	112	113	59.0	129	0.89	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Bromoform	107	107	65.0	149	0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Bromomethane	102	105	78.0	126	2.9	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Carbon Disulfide	104	107	75.0	127	2.8	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Carbon Tetrachloride	112	113	78.0	125	1	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Chlorobenzene	100	100	78.0	125	0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Chloroethane	105	106	76.0	130	1	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Chloroform	109	114	76.0	125	4.5	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Chloromethane	108	108	80.0	129	0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Cis-1,2-Dichloroethene	108	110	80.0	125	1.8	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Cis-1,3-Dichloropropene	112	115	78.0	134	2.6	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Dibromochloromethane	112	113	74.0	131	0.89	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Dibromomethane	110	113	50.0	150	2.7	30
SW8260B	680-168800-1	5/19/19	680-570981	W	Dichlorodifluoromethane	97	100	67.0	128	3.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Ethylbenzene	99	99	68.0	133	0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Hexachlorobutadiene	100	103	36.0	176	3.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Iodomethane	104	105	73.0	134	1.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Isopropyl Benzene (Cumene)	99	101	79.0	122	2.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	m,p-Xylene	100	100	70.0	130	0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Methylene Chloride	102	105	70.0	127	2.9	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Mtbe	109	109	68.0	129	0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Naphthalene	101	105	54.0	154	3.9	20
SW8260B	680-168800-1	5/19/19	680-570981	W	N-Butylbenzene	97	101	79.0	136	4.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	N-Propylbenzene	99	100	80.0	133	1.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	O-Xylene	98	100	75.0	125	2.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	P-Isopropyltoluene (Cymene)	98	99	76.0	135	1.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Sec-Butylbenzene	99	101	75.0	133	2.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Styrene	100	102	65.0	139	2.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Tert-Butylbenzene	99	101	80.0	130	2.0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Tetrachloroethylene	109	111	76.0	123	1.8	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168800-1	5/19/19	680-570981	W	Toluene	108	109	75.0	132	0.92	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Trans-1,2-Dichloroethene	109	109	80.0	127	0	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Trans-1,3-Dichloropropene	113	116	73.0	120	2.6	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Trans-1,4-Dichloro-2-Butene	109	111	67.0	132	1.8	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Trichloroethene	109	110	77.0	127	0.91	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Trichlorofluoromethane	105	109	78.0	121	3.7	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Vinyl Acetate	109	112	75.0	122	2.7	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Vinyl Chloride	103	106	80.0	133	2.9	20
SW8260B	680-168800-1	5/19/19	680-570981	W	Xylenes (Total)	99	100	74.0	123	1.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,1,1,2-Tetrachloroethane	144	141	62.0	134	2.1	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,1,1-Trichloroethane	140	135	45.0	150	3.6	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,1,2,2-Tetrachloroethane	102	102	45.0	150	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	132	127	79.0	121	3.9	30
SW8260B	680-168800-1	5/20/19	680-571004	W	1,1,2-Trichloroethane	107	107	73.0	127	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,1-Dichloroethane	105	104	59.0	150	1.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,1-Dichloroethene	109	106	51.0	157	2.8	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,1-Dichloropropene	104	102	50.0	150	1.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,2,3-Trichlorobenzene	54	51	79.0	126	5.7	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,2,3-Trichloropropane	99	97	74.0	123	2.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,2,4-Trichlorobenzene	91	88	78.0	127	3.4	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,2,4-Trimethylbenzene	107	105	70.0	130	1.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,2-Dibromo-3-Chloropropane	97	99	72.0	136	2.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,2-Dibromoethane	105	104	35.0	153	1.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,2-Dichlorobenzene	98	98	74.0	123	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,2-Dichloroethane	101	100	71.0	132	1.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,2-Dichloropropane	106	106	80.0	127	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,3,5-Trimethylbenzene	106	104	72.0	129	1.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,3-Dichlorobenzene	102	99	74.0	127	3.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,3-Dichloropropane	101	101	58.0	135	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	1,4-Dichlorobenzene	103	102	73.0	133	1	20
SW8260B	680-168800-1	5/20/19	680-571004	W	2,2-Dichloropropane	123	121	73.0	132	1.6	20
SW8260B	680-168800-1	5/20/19	680-571004	W	2-Butanone (MEK)	88	89	74.0	145	1.1	30
SW8260B	680-168800-1	5/20/19	680-571004	W	2-Chlorotoluene	104	104	76.0	132	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168800-1	5/20/19	680-571004	W	2-Hexanone	94	94	59.0	134	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	4-Chlorotoluene	104	103	79.0	120	1.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	4-Methyl-2-Pentanone (MIBK)	92	93	78.0	133	1.1	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Acetone	92	92	70.0	130	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Acrylonitrile	98	100	77.0	126	2.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Benzene	101	99	69.0	118	2.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Bromobenzene	106	103	59.0	129	2.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Bromodichloromethane	228	227	65.0	149	0.44	20
SW8260B	680-168800-1	5/20/19	680-571004	W	4-Bromofluorobenzene	99	99	78.0	126	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Bromoform	221	223	75.0	127	0.90	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Bromomethane	141	134	78.0	125	5.1	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Carbon Disulfide	99	96	78.0	125	3.1	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Carbon Tetrachloride	676	696	76.0	130	2.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Chlorobenzene	104	104	76.0	125	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Bromochloromethane	97	93	80.0	129	4.2	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Chloroethane	116	110	80.0	125	5.3	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Chloroform	106	103	78.0	134	2.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Chloromethane	116	115	74.0	131	0.87	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Cis-1,2-Dichloroethene	104	103	50.0	150	1.0	30
SW8260B	680-168800-1	5/20/19	680-571004	W	Cis-1,3-Dichloropropene	115	115	67.0	128	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Dibromochloromethane	280	278	68.0	133	1	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Dibromomethane	109	109	36.0	176	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Dichlorodifluoromethane	91	90	73.0	134	1.1	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Ethylbenzene	106	103	79.0	122	2.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Hexachlorobutadiene	104	99	70.0	130	4.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Isopropyl Benzene (Cumene)	108	107	70.0	127	0.93	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Mtbe	98	101	68.0	129	3.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Methylene Chloride	100	100	54.0	154	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Iodomethane	98	93	79.0	136	5.2	20
SW8260B	680-168800-1	5/20/19	680-571004	W	m,p-Xylene	104	102	80.0	133	1.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Naphthalene	73	72	75.0	125	1.4	20
SW8260B	680-168800-1	5/20/19	680-571004	W	N-Butylbenzene	106	104	76.0	135	1.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	N-Propylbenzene	105	102	75.0	133	2.9	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168800-1	5/20/19	680-571004	W	O-Xylene	105	105	65.0	139	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	P-Isopropyltoluene (Cymene)	108	105	80.0	130	2.8	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Sec-Butylbenzene	106	105	76.0	123	0.95	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Styrene	106	105	75.0	132	0.95	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Tert-Butylbenzene	107	105	80.0	127	1.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Tetrachloroethylene	110	107	73.0	120	2.8	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Toluene	102	101	67.0	132	1.0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Trans-1,2-Dichloroethene	107	103	77.0	127	3.8	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Trans-1,3-Dichloropropene	109	107	78.0	121	1.9	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Trans-1,4-Dichloro-2-Butene	121	122	75.0	122	0.82	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Trichloroethene	106	102	80.0	133	3.8	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Trichlorofluoromethane	133	128	74.0	123	3.8	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Vinyl Chloride	120	116	62.0	134	3.4	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Vinyl Acetate	117	117	45.0	150	0	20
SW8260B	680-168800-1	5/20/19	680-571004	W	Xylenes (Total)	104	104	45.0	150	0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,1,1,2-Tetrachloroethane	106	106	79.0	121	0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,1,1-Trichloroethane	104	101	73.0	127	2.9	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,1,2,2-Tetrachloroethane	102	102	59.0	150	0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	104	95	51.0	157	9.0	30
SW8260B	680-168800-1	5/21/19	680-571152	W	1,1,2-Trichloroethane	105	106	50.0	150	0.95	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,1-Dichloroethane	101	101	79.0	126	0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,1-Dichloroethene	104	98	74.0	123	5.9	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,1-Dichloropropene	101	95	78.0	127	6.1	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,2,3-Trichlorobenzene	99	95	70.0	130	4.1	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,2,3-Trichloropropane	108	104	72.0	136	3.8	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,2,4-Trichlorobenzene	98	95	35.0	153	3.1	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,2,4-Trimethylbenzene	101	98	74.0	123	3.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,2-Dibromo-3-Chloropropane	106	104	71.0	132	1.9	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,2-Dibromoethane	106	105	80.0	127	0.95	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,2-Dichlorobenzene	96	94	72.0	129	2.1	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,2-Dichloroethane	104	105	74.0	127	1.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,2-Dichloropropane	99	99	58.0	135	0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,3,5-Trimethylbenzene	102	99	73.0	133	3.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168800-1	5/21/19	680-571152	W	1,3-Dichlorobenzene	97	93	73.0	132	4.2	20
SW8260B	680-168800-1	5/21/19	680-571152	W	1,3-Dichloropropane	104	104	74.0	145	0	30
SW8260B	680-168800-1	5/21/19	680-571152	W	1,4-Dichlorobenzene	97	95	76.0	132	2.1	20
SW8260B	680-168800-1	5/21/19	680-571152	W	2,2-Dichloropropane	112	106	59.0	134	5.5	20
SW8260B	680-168800-1	5/21/19	680-571152	W	2-Butanone (MEK)	107	111	79.0	120	3.7	20
SW8260B	680-168800-1	5/21/19	680-571152	W	2-Chlorotoluene	101	98	78.0	133	3.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	2-Hexanone	104	103	70.0	130	1.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	4-Chlorotoluene	100	100	77.0	126	0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	4-Methyl-2-Pentanone (MIBK)	103	105	69.0	118	1.9	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Acetone	101	100	59.0	129	1.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Acrylonitrile	100	99	65.0	149	1.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Benzene	101	99	78.0	126	2.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Bromobenzene	101	100	75.0	127	1.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Bromodichloromethane	105	105	78.0	125	0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	4-Bromofluorobenzene	94	91	78.0	125	3.2	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Bromoform	109	108	76.0	130	0.92	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Bromomethane	99	89	76.0	125	11	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Carbon Disulfide	99	95	80.0	129	4.1	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Carbon Tetrachloride	106	100	80.0	125	5.8	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Chlorobenzene	101	99	78.0	134	2.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Bromochloromethane	102	104	74.0	131	1.9	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Chloroethane	97	93	50.0	150	4.2	30
SW8260B	680-168800-1	5/21/19	680-571152	W	Chloroform	105	105	67.0	128	0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Chloromethane	95	92	68.0	133	3.2	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Cis-1,2-Dichloroethene	105	103	36.0	176	1.9	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Cis-1,3-Dichloropropene	108	108	73.0	134	0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Dibromochloromethane	108	109	79.0	122	0.92	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Dibromomethane	106	105	70.0	130	0.95	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Dichlorodifluoromethane	89	79	70.0	127	12	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Ethylbenzene	101	96	68.0	129	5.1	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Hexachlorobutadiene	101	93	54.0	154	8.2	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Isopropyl Benzene (Cumene)	103	98	79.0	136	5.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Mtbe	103	104	80.0	133	0.97	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168800-1	5/21/19	680-571152	W	Methylene Chloride	98	98	75.0	125	0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Iodomethane	102	97	76.0	135	5.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	m,p-Xylene	101	98	75.0	133	3.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Naphthalene	103	100	65.0	139	3.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	N-Butylbenzene	98	92	80.0	130	6.3	20
SW8260B	680-168800-1	5/21/19	680-571152	W	N-Propylbenzene	100	98	76.0	123	2.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	O-Xylene	101	99	75.0	132	2.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	P-Isopropyltoluene (Cymene)	98	93	80.0	127	5.2	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Sec-Butylbenzene	103	97	73.0	120	6.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Styrene	103	101	67.0	132	2.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Tert-Butylbenzene	103	98	77.0	127	5.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Tetrachloroethylene	105	98	78.0	121	6.9	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Toluene	103	103	75.0	122	0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Trans-1,2-Dichloroethene	102	99	80.0	133	3.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Trans-1,3-Dichloropropene	108	109	74.0	123	0.92	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Trans-1,4-Dichloro-2-Butene	111	107	62.0	134	3.7	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Trichloroethene	102	101	45.0	150	1.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Trichlorofluoromethane	105	96	45.0	150	9.0	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Vinyl Chloride	95	90	79.0	121	5.4	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Vinyl Acetate	106	105	73.0	127	0.95	20
SW8260B	680-168800-1	5/21/19	680-571152	W	Xylenes (Total)	101	98	59.0	150	3.0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,1,1,2-Tetrachloroethane	107	100	51.0	157	6.8	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,1,1-Trichloroethane	93	98	50.0	150	5.2	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,1,2,2-Tetrachloroethane	110	101	79.0	126	8.5	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	89	106	74.0	123	17	30
SW8260B	680-168800-1	5/21/19	680-571150	W	1,1,2-Trichloroethane	108	100	78.0	127	7.7	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,1-Dichloroethane	99	96	70.0	130	3.1	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,1-Dichloroethene	90	102	72.0	136	13	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,1-Dichloropropene	91	94	35.0	153	3.2	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,2,3-Trichlorobenzene	108	105	74.0	123	2.8	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,2,3-Trichloropropane	108	97	71.0	132	11	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,2,4-Trichlorobenzene	107	105	80.0	127	1.9	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,2,4-Trimethylbenzene	101	102	72.0	129	1.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168800-1	5/21/19	680-571150	W	1,2-Dibromo-3-Chloropropane	105	96	74.0	127	9.0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,2-Dibromoethane	111	101	58.0	135	9.4	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,2-Dichlorobenzene	101	95	73.0	133	6.1	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,2-Dichloroethane	109	98	73.0	132	11	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,2-Dichloropropane	103	98	74.0	145	5.0	30
SW8260B	680-168800-1	5/21/19	680-571150	W	1,3,5-Trimethylbenzene	98	101	76.0	132	3.0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,3-Dichlorobenzene	98	95	59.0	134	3.1	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,3-Dichloropropane	110	97	79.0	120	13	20
SW8260B	680-168800-1	5/21/19	680-571150	W	1,4-Dichlorobenzene	98	95	78.0	133	3.1	20
SW8260B	680-168800-1	5/21/19	680-571150	W	2,2-Dichloropropane	101	112	70.0	130	10	20
SW8260B	680-168800-1	5/21/19	680-571150	W	2-Butanone (MEK)	102	90	77.0	126	13	20
SW8260B	680-168800-1	5/21/19	680-571150	W	2-Chlorotoluene	99	99	69.0	118	0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	2-Hexanone	104	91	59.0	129	13	20
SW8260B	680-168800-1	5/21/19	680-571150	W	4-Chlorotoluene	101	101	65.0	149	0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	4-Methyl-2-Pentanone (MIBK)	104	92	78.0	126	12	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Acetone	92	80	75.0	127	14	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Acrylonitrile	102	90	78.0	125	13	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Benzene	97	95	78.0	125	2.1	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Bromobenzene	108	105	76.0	130	2.8	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Bromodichloromethane	106	101	76.0	125	4.8	20
SW8260B	680-168800-1	5/21/19	680-571150	W	4-Bromofluorobenzene	96	94	80.0	129	2.1	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Bromoform	113	105	80.0	125	7.3	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Bromomethane	80	72	78.0	134	11	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Carbon Disulfide	89	95	74.0	131	6.5	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Carbon Tetrachloride	91	100	50.0	150	9.4	30
SW8260B	680-168800-1	5/21/19	680-571150	W	Chlorobenzene	102	99	67.0	128	3.0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Bromochloromethane	111	99	68.0	133	11	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Chloroethane	75	71	36.0	176	5.5	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Chloroform	104	98	73.0	134	5.9	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Chloromethane	88	82	79.0	122	7.1	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Cis-1,2-Dichloroethene	99	97	70.0	130	2.0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Cis-1,3-Dichloropropene	109	103	70.0	127	5.7	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Dibromochloromethane	110	104	68.0	129	5.6	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168800-1	5/21/19	680-571150	W	Dibromomethane	109	98	54.0	154	11	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Dichlorodifluoromethane	87	79	79.0	136	9.6	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Ethylbenzene	97	98	80.0	133	1.0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Hexachlorobutadiene	97	115	75.0	125	17	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Isopropyl Benzene (Cumene)	94	101	76.0	135	7.2	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Mtbe	108	97	75.0	133	11	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Methylene Chloride	100	93	65.0	139	7.3	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Iodomethane	81	71	80.0	130	13	20
SW8260B	680-168800-1	5/21/19	680-571150	W	m,p-Xylene	98	98	76.0	123	0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Naphthalene	107	96	75.0	132	11	20
SW8260B	680-168800-1	5/21/19	680-571150	W	N-Butylbenzene	91	102	80.0	127	11	20
SW8260B	680-168800-1	5/21/19	680-571150	W	N-Propylbenzene	96	102	73.0	120	6.1	20
SW8260B	680-168800-1	5/21/19	680-571150	W	O-Xylene	100	100	67.0	132	0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	P-Isopropyltoluene (Cymene)	94	100	77.0	127	6.2	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Sec-Butylbenzene	92	101	78.0	121	9.3	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Styrene	106	103	75.0	122	2.9	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Tert-Butylbenzene	95	100	80.0	133	5.1	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Tetrachloroethylene	96	104	74.0	123	8.0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Toluene	100	98	62.0	134	2.0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Trans-1,2-Dichloroethene	98	100	45.0	150	2.0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Trans-1,3-Dichloropropene	110	95	45.0	150	15	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Trans-1,4-Dichloro-2-Butene	110	105	79.0	121	4.7	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Trichloroethene	97	99	73.0	127	2.0	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Trichlorofluoromethane	85	96	59.0	150	12	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Vinyl Chloride	86	87	51.0	157	1.2	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Vinyl Acetate	113	130	50.0	150	14	20
SW8260B	680-168800-1	5/21/19	680-571150	W	Xylenes (Total)	99	99	79.0	126	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,1,1,2-Tetrachloroethane	104	109	74.0	123	4.7	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,1,1-Trichloroethane	103	102	78.0	127	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,1,2,2-Tetrachloroethane	96	101	70.0	130	5.1	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	102	91	72.0	136	11	30
SW8260B	680-168800-1	5/21/19	680-571246	W	1,1,2-Trichloroethane	104	106	35.0	153	1.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,1-Dichloroethane	101	101	74.0	123	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168800-1	5/21/19	680-571246	W	1,1-Dichloroethene	104	100	71.0	132	3.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,1-Dichloropropene	100	97	80.0	127	3.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,2,3-Trichlorobenzene	99	98	72.0	129	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,2,3-Trichloropropane	104	108	74.0	127	3.8	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,2,4-Trichlorobenzene	96	95	58.0	135	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,2,4-Trimethylbenzene	100	98	73.0	133	2.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,2-Dibromo-3-Chloropropane	107	111	73.0	132	3.7	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,2-Dibromoethane	101	106	74.0	145	4.8	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,2-Dichlorobenzene	97	99	76.0	132	2.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,2-Dichloroethane	101	104	59.0	134	2.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,2-Dichloropropane	98	100	79.0	120	2.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,3,5-Trimethylbenzene	100	99	78.0	133	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,3-Dichlorobenzene	96	97	70.0	130	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,3-Dichloropropane	101	104	77.0	126	2.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	1,4-Dichlorobenzene	97	97	69.0	118	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	2,2-Dichloropropane	82	82	59.0	129	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	2-Butanone (MEK)	107	112	65.0	149	4.6	20
SW8260B	680-168800-1	5/21/19	680-571246	W	2-Chlorotoluene	99	100	78.0	126	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	2-Hexanone	99	106	75.0	127	6.8	20
SW8260B	680-168800-1	5/21/19	680-571246	W	4-Chlorotoluene	98	98	78.0	125	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	4-Methyl-2-Pentanone (MIBK)	101	107	78.0	125	5.8	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Acetone	99	105	76.0	130	5.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Acrylonitrile	96	102	76.0	125	6.1	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Benzene	100	99	80.0	129	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Bromobenzene	101	103	80.0	125	2.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Bromodichloromethane	104	108	78.0	134	3.8	20
SW8260B	680-168800-1	5/21/19	680-571246	W	4-Bromofluorobenzene	94	95	74.0	131	1.1	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Bromoform	106	109	50.0	150	2.8	30
SW8260B	680-168800-1	5/21/19	680-571246	W	Bromomethane	81	77	67.0	128	5.1	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Carbon Disulfide	97	96	68.0	133	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Carbon Tetrachloride	106	104	36.0	176	1.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Chlorobenzene	100	100	73.0	134	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Bromochloromethane	100	102	79.0	122	2.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168800-1	5/21/19	680-571246	W	Chloroethane	97	97	70.0	130	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Chloroform	103	106	70.0	127	2.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Chloromethane	92	91	68.0	129	1.1	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Cis-1,2-Dichloroethene	97	99	54.0	154	2.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Cis-1,3-Dichloropropene	102	104	79.0	136	1.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Dibromochloromethane	107	109	80.0	133	1.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Dibromomethane	101	105	75.0	125	3.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Dichlorodifluoromethane	86	77	76.0	135	11	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Ethylbenzene	100	100	75.0	133	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Hexachlorobutadiene	96	90	65.0	139	6.5	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Isopropyl Benzene (Cumene)	102	102	80.0	130	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Mtbe	100	104	76.0	123	3.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Methylene Chloride	96	99	75.0	132	3.1	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Iodomethane	97	97	80.0	127	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	m,p-Xylene	99	99	73.0	120	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Naphthalene	103	104	67.0	132	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	N-Butylbenzene	96	91	77.0	127	5.3	20
SW8260B	680-168800-1	5/21/19	680-571246	W	N-Propylbenzene	99	98	78.0	121	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	O-Xylene	100	100	75.0	122	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	P-Isopropyltoluene (Cymene)	99	95	80.0	133	4.1	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Sec-Butylbenzene	101	98	74.0	123	3.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Styrene	101	102	62.0	134	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Tert-Butylbenzene	101	101	45.0	150	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Tetrachloroethylene	104	101	45.0	150	2.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Toluene	102	103	79.0	121	1.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Trans-1,2-Dichloroethene	100	100	73.0	127	0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Trans-1,3-Dichloropropene	100	104	59.0	150	3.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Trans-1,4-Dichloro-2-Butene	97	101	51.0	157	4.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Trichloroethene	106	103	50.0	150	2.9	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Trichlorofluoromethane	103	96	79.0	126	7.0	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Vinyl Chloride	93	91	74.0	123	2.2	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Vinyl Acetate	84	88	78.0	127	4.7	20
SW8260B	680-168800-1	5/21/19	680-571246	W	Xylenes (Total)	100	100	70.0	130	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/24/19	680-571700	W	1,1,1,2-Tetrachloroethane	108	107	72.0	136	0.93	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,1,1-Trichloroethane	101	102	35.0	153	1	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,1,2,2-Tetrachloroethane	101	100	74.0	123	1	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	102	98	71.0	132	4.0	30
SW8260B	680-169087-1	5/24/19	680-571700	W	1,1,2-Trichloroethane	103	104	80.0	127	0.97	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,1-Dichloroethane	101	102	72.0	129	1	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,1-Dichloroethene	102	99	74.0	127	3.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,1-Dichloropropene	102	102	58.0	135	0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,2,3-Trichlorobenzene	96	94	73.0	133	2.1	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,2,3-Trichloropropane	104	104	73.0	132	0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,2,4-Trichlorobenzene	95	92	74.0	145	3.2	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,2,4-Trimethylbenzene	99	99	76.0	132	0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,2-Dibromo-3-Chloropropane	102	98	59.0	134	4.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,2-Dibromoethane	104	105	79.0	120	0.96	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,2-Dichlorobenzene	100	98	78.0	133	2.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,2-Dichloroethane	102	104	70.0	130	1.9	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,2-Dichloropropane	97	97	77.0	126	0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,3,5-Trimethylbenzene	101	100	69.0	118	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,3-Dichlorobenzene	97	96	59.0	129	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,3-Dichloropropane	102	103	65.0	149	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	1,4-Dichlorobenzene	98	95	78.0	126	3.1	20
SW8260B	680-169087-1	5/24/19	680-571700	W	2,2-Dichloropropane	103	105	75.0	127	1.9	20
SW8260B	680-169087-1	5/24/19	680-571700	W	2-Butanone (MEK)	107	107	78.0	125	0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	2-Chlorotoluene	101	99	78.0	125	2.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	2-Hexanone	101	101	76.0	130	0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	4-Chlorotoluene	100	99	76.0	125	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	4-Methyl-2-Pentanone (MIBK)	101	102	80.0	129	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Acetone	98	97	80.0	125	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Acrylonitrile	94	96	78.0	134	2.1	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Benzene	99	100	74.0	131	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Bromobenzene	102	100	50.0	150	2.0	30
SW8260B	680-169087-1	5/24/19	680-571700	W	Bromodichloromethane	101	103	67.0	128	2.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	4-Bromofluorobenzene	96	92	68.0	133	4.3	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/24/19	680-571700	W	Bromoform	108	106	36.0	176	1.9	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Bromomethane	88	100	73.0	134	13	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Carbon Disulfide	99	99	79.0	122	0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Carbon Tetrachloride	104	103	70.0	130	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Chlorobenzene	100	99	70.0	127	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Bromochloromethane	101	103	68.0	129	2.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Chloroethane	99	98	54.0	154	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Chloroform	104	104	79.0	136	0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Chloromethane	99	97	80.0	133	2.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Cis-1,2-Dichloroethene	98	99	75.0	125	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Cis-1,3-Dichloropropene	105	106	76.0	135	0.95	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Dibromochloromethane	106	107	75.0	133	0.94	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Dibromomethane	101	103	65.0	139	2.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Dichlorodifluoromethane	112	107	80.0	130	4.6	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Ethylbenzene	99	97	76.0	123	2.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Hexachlorobutadiene	95	91	75.0	132	4.3	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Isopropyl Benzene (Cumene)	101	99	80.0	127	2.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Mtbe	102	103	73.0	120	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Methylene Chloride	95	96	67.0	132	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Iodomethane	95	96	77.0	127	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	m,p-Xylene	101	99	78.0	121	2.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Naphthalene	103	99	75.0	122	4.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	N-Butylbenzene	96	94	80.0	133	2.1	20
SW8260B	680-169087-1	5/24/19	680-571700	W	N-Propylbenzene	101	100	74.0	123	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	O-Xylene	100	99	62.0	134	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	P-Isopropyltoluene (Cymene)	98	96	45.0	150	2.1	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Sec-Butylbenzene	100	100	45.0	150	0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Styrene	101	100	79.0	121	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Tert-Butylbenzene	102	101	73.0	127	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Tetrachloroethylene	103	102	59.0	150	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Toluene	103	102	51.0	157	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Trans-1,2-Dichloroethene	98	100	50.0	150	2.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Trans-1,3-Dichloropropene	111	112	79.0	126	0.90	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/24/19	680-571700	W	Trans-1,4-Dichloro-2-Butene	106	105	74.0	123	0.95	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Trichloroethene	106	103	78.0	127	2.9	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Trichlorofluoromethane	103	102	70.0	130	1.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Vinyl Chloride	100	97	72.0	136	3.0	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Vinyl Acetate	89	92	35.0	153	3.3	20
SW8260B	680-169087-1	5/24/19	680-571700	W	Xylenes (Total)	100	99	74.0	123	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,1,1,2-Tetrachloroethane	107	108	71.0	132	0.93	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,1,1-Trichloroethane	104	103	80.0	127	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,1,2,2-Tetrachloroethane	103	102	72.0	129	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	100	102	74.0	127	2.0	30
SW8260B	680-169087-1	5/25/19	680-571803	W	1,1,2-Trichloroethane	105	104	58.0	135	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,1-Dichloroethane	100	100	73.0	133	0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,1-Dichloroethene	100	100	73.0	132	0	30
SW8260B	680-169087-1	5/25/19	680-571803	W	1,1-Dichloropropene	101	102	74.0	145	0.99	30
SW8260B	680-169087-1	5/25/19	680-571803	W	1,2,3-Trichlorobenzene	96	94	76.0	132	2.1	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,2,3-Trichloropropane	106	105	59.0	134	0.95	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,2,4-Trichlorobenzene	94	92	79.0	120	2.2	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,2,4-Trimethylbenzene	100	102	78.0	133	2.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,2-Dibromo-3-Chloropropane	102	102	70.0	130	0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,2-Dibromoethane	108	105	77.0	126	2.8	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,2-Dichlorobenzene	99	98	69.0	118	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,2-Dichloroethane	104	102	59.0	129	1.9	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,2-Dichloropropane	97	95	65.0	149	2.1	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,3,5-Trimethylbenzene	103	105	78.0	126	1.9	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,3-Dichlorobenzene	95	95	75.0	127	0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,3-Dichloropropane	104	100	78.0	125	3.9	20
SW8260B	680-169087-1	5/25/19	680-571803	W	1,4-Dichlorobenzene	97	96	78.0	125	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	2,2-Dichloropropane	107	108	76.0	130	0.93	20
SW8260B	680-169087-1	5/25/19	680-571803	W	2-Butanone (MEK)	111	105	76.0	125	5.6	20
SW8260B	680-169087-1	5/25/19	680-571803	W	2-Chlorotoluene	101	102	80.0	129	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	2-Hexanone	103	99	80.0	125	4.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	4-Chlorotoluene	101	102	78.0	134	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	4-Methyl-2-Pentanone (MIBK)	104	100	74.0	131	3.9	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/25/19	680-571803	W	Acetone	98	97	50.0	150	1.0	30
SW8260B	680-169087-1	5/25/19	680-571803	W	Acrylonitrile	100	94	67.0	128	6.2	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Benzene	100	99	68.0	133	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Bromobenzene	102	102	36.0	176	0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Bromodichloromethane	104	101	73.0	134	2.9	20
SW8260B	680-169087-1	5/25/19	680-571803	W	4-Bromofluorobenzene	94	91	79.0	122	3.2	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Bromoform	113	108	70.0	130	4.5	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Bromomethane	98	105	70.0	127	6.9	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Carbon Disulfide	100	98	68.0	129	2.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Carbon Tetrachloride	106	106	54.0	154	0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Chlorobenzene	100	101	79.0	136	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Bromochloromethane	104	102	80.0	133	1.9	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Chloroethane	100	101	75.0	125	1	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Chloroform	105	104	76.0	135	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Chloromethane	98	100	75.0	133	2.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Cis-1,2-Dichloroethene	99	98	65.0	139	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Cis-1,3-Dichloropropene	108	106	80.0	130	1.9	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Dibromochloromethane	110	106	76.0	123	3.7	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Dibromomethane	104	102	75.0	132	1.9	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Dichlorodifluoromethane	111	110	80.0	127	0.90	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Ethylbenzene	99	100	73.0	120	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Hexachlorobutadiene	92	91	67.0	132	1.1	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Isopropyl Benzene (Cumene)	101	102	77.0	127	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Mtbe	105	102	78.0	121	2.9	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Methylene Chloride	97	96	75.0	122	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Iodomethane	101	100	80.0	133	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	m,p-Xylene	101	102	74.0	123	1	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Naphthalene	101	97	62.0	134	4.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	N-Butylbenzene	94	96	45.0	150	2.1	20
SW8260B	680-169087-1	5/25/19	680-571803	W	N-Propylbenzene	101	103	45.0	150	2.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	O-Xylene	101	102	79.0	121	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	P-Isopropyltoluene (Cymene)	97	99	73.0	127	2.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Sec-Butylbenzene	102	103	59.0	150	1	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/25/19	680-571803	W	Styrene	102	103	51.0	157	1.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Tert-Butylbenzene	102	104	50.0	150	1.9	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Tetrachloroethylene	106	104	79.0	126	1.9	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Toluene	103	101	74.0	123	2.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Trans-1,2-Dichloroethene	100	97	78.0	127	3.0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Trans-1,3-Dichloropropene	115	112	70.0	130	2.6	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Trans-1,4-Dichloro-2-Butene	108	108	72.0	136	0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Trichloroethene	104	104	35.0	153	0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Trichlorofluoromethane	105	104	74.0	123	1	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Vinyl Chloride	97	97	71.0	132	0	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Vinyl Acetate	94	92	80.0	127	2.2	20
SW8260B	680-169087-1	5/25/19	680-571803	W	Xylenes (Total)	101	102	72.0	129	1	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,1,1,2-Tetrachloroethane	101	102	74.0	127	1.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,1,1-Trichloroethane	104	102	58.0	135	1.9	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,1,2,2-Tetrachloroethane	101	107	73.0	133	5.8	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	111	107	73.0	132	3.7	30
SW8260B	680-169087-1	5/28/19	680-571989	W	1,1,2-Trichloroethane	107	99	74.0	145	7.8	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,1-Dichloroethane	100	100	76.0	132	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,1-Dichloroethene	109	107	59.0	134	1.9	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,1-Dichloropropene	102	102	79.0	120	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,2,3-Trichlorobenzene	102	110	78.0	133	7.5	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,2,3-Trichloropropane	108	109	70.0	130	0.92	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,2,4-Trichlorobenzene	101	109	77.0	126	7.6	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,2,4-Trimethylbenzene	107	107	69.0	118	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,2-Dibromo-3-Chloropropane	105	113	59.0	129	7.3	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,2-Dibromoethane	108	108	65.0	149	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,2-Dichlorobenzene	99	101	78.0	126	2.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,2-Dichloroethane	107	106	75.0	127	0.94	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,2-Dichloropropane	94	106	78.0	125	12	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,3,5-Trimethylbenzene	105	105	78.0	125	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,3-Dichlorobenzene	101	103	76.0	130	2.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,3-Dichloropropane	109	100	76.0	125	8.6	20
SW8260B	680-169087-1	5/28/19	680-571989	W	1,4-Dichlorobenzene	99	98	80.0	129	1.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/28/19	680-571989	W	2,2-Dichloropropane	109	108	80.0	125	0.92	20
SW8260B	680-169087-1	5/28/19	680-571989	W	2-Butanone (MEK)	108	109	78.0	134	0.92	20
SW8260B	680-169087-1	5/28/19	680-571989	W	2-Chlorotoluene	105	105	74.0	131	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	2-Hexanone	113	102	50.0	150	10	30
SW8260B	680-169087-1	5/28/19	680-571989	W	4-Chlorotoluene	107	104	67.0	128	2.8	20
SW8260B	680-169087-1	5/28/19	680-571989	W	4-Methyl-2-Pentanone (MIBK)	104	117	68.0	133	12	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Acetone	104	103	36.0	176	1.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Acrylonitrile	112	112	73.0	134	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Benzene	103	104	79.0	122	1.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Bromobenzene	101	108	70.0	130	6.7	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Bromodichloromethane	100	109	70.0	127	8.6	20
SW8260B	680-169087-1	5/28/19	680-571989	W	4-Bromofluorobenzene	88	106	68.0	129	19	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Bromoform	98	106	54.0	154	7.8	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Bromomethane	91	87	79.0	136	4.5	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Carbon Disulfide	105	102	80.0	133	2.9	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Carbon Tetrachloride	109	106	75.0	125	2.8	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Chlorobenzene	100	101	76.0	135	1.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Bromochloromethane	105	108	75.0	133	2.8	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Chloroethane	103	104	65.0	139	1.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Chloroform	100	102	80.0	130	2.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Chloromethane	108	110	76.0	123	1.8	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Cis-1,2-Dichloroethene	99	99	75.0	132	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Cis-1,3-Dichloropropene	99	115	80.0	127	15	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Dibromochloromethane	105	105	73.0	120	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Dibromomethane	98	108	67.0	132	9.7	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Dichlorodifluoromethane	112	108	77.0	127	3.6	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Ethylbenzene	102	102	78.0	121	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Hexachlorobutadiene	101	106	75.0	122	4.8	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Isopropyl Benzene (Cumene)	92	103	80.0	133	11	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Mtbe	108	109	74.0	123	0.92	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Methylene Chloride	107	107	62.0	134	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Iodomethane	84	79	45.0	150	6.1	20
SW8260B	680-169087-1	5/28/19	680-571989	W	m,p-Xylene	102	103	45.0	150	1	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/28/19	680-571989	W	Naphthalene	106	113	79.0	121	6.4	20
SW8260B	680-169087-1	5/28/19	680-571989	W	N-Butylbenzene	103	98	73.0	127	5.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	N-Propylbenzene	105	105	59.0	150	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	O-Xylene	100	102	51.0	157	2.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	P-Isopropyltoluene (Cymene)	102	101	50.0	150	1.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Sec-Butylbenzene	106	105	79.0	126	0.95	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Styrene	101	106	74.0	123	4.8	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Tert-Butylbenzene	105	104	78.0	127	1.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Tetrachloroethylene	105	99	70.0	130	5.9	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Toluene	104	105	72.0	136	1.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Trans-1,2-Dichloroethene	102	102	35.0	153	0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Trans-1,3-Dichloropropene	110	111	74.0	123	1	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Trans-1,4-Dichloro-2-Butene	108	104	71.0	132	3.8	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Trichloroethene	99	102	80.0	127	3.0	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Trichlorofluoromethane	105	101	72.0	129	3.9	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Vinyl Chloride	115	113	74.0	127	1.8	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Vinyl Acetate	124	126	58.0	135	1.6	20
SW8260B	680-169087-1	5/28/19	680-571989	W	Xylenes (Total)	101	103	73.0	133	2.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,1,1,2-Tetrachloroethane	112	114	73.0	132	1.8	30
SW8260B	680-169087-1	5/28/19	680-572037	W	1,1,1-Trichloroethane	100	102	74.0	145	2.0	30
SW8260B	680-169087-1	5/28/19	680-572037	W	1,1,2,2-Tetrachloroethane	107	113	76.0	132	5.5	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	94	92	59.0	134	2.2	30
SW8260B	680-169087-1	5/28/19	680-572037	W	1,1,2-Trichloroethane	114	115	79.0	120	0.87	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,1-Dichloroethane	102	102	78.0	133	0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,1-Dichloroethene	98	97	70.0	130	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,1-Dichloropropene	100	99	77.0	126	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,2,3-Trichlorobenzene	102	103	69.0	118	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,2,3-Trichloropropane	120	115	59.0	129	4.3	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,2,4-Trichlorobenzene	98	99	65.0	149	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,2,4-Trimethylbenzene	101	103	78.0	126	2.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,2-Dibromo-3-Chloropropane	118	123	75.0	127	4.1	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,2-Dibromoethane	117	115	78.0	125	1.7	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,2-Dichlorobenzene	102	105	78.0	125	2.9	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/28/19	680-572037	W	1,2-Dichloroethane	110	109	76.0	130	0.91	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,2-Dichloropropane	102	101	76.0	125	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,3,5-Trimethylbenzene	102	102	80.0	129	0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,3-Dichlorobenzene	97	102	80.0	125	5.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,3-Dichloropropane	113	111	78.0	134	1.8	20
SW8260B	680-169087-1	5/28/19	680-572037	W	1,4-Dichlorobenzene	99	102	74.0	131	3.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	2,2-Dichloropropane	78	81	50.0	150	3.8	30
SW8260B	680-169087-1	5/28/19	680-572037	W	2-Butanone (MEK)	129	128	67.0	128	0.78	20
SW8260B	680-169087-1	5/28/19	680-572037	W	2-Chlorotoluene	101	104	68.0	133	2.9	20
SW8260B	680-169087-1	5/28/19	680-572037	W	2-Hexanone	120	122	36.0	176	1.7	20
SW8260B	680-169087-1	5/28/19	680-572037	W	4-Chlorotoluene	102	103	73.0	134	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	4-Methyl-2-Pentanone (MIBK)	118	121	79.0	122	2.5	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Acetone	117	115	84.0	121	1.7	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Acrylonitrile	110	113	84.0	121	2.7	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Benzene	101	102	80.0	119	0.99	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Bromobenzene	106	106	80.0	119	0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Bromodichloromethane	110	110	83.0	117	0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	4-Bromofluorobenzene	95	100	83.0	117	5.1	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Bromoform	119	118	88.0	116	0.84	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Bromomethane	94	101	88.0	116	7.2	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Carbon Disulfide	93	95	91.0	111	2.1	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Carbon Tetrachloride	100	104	91.0	111	3.9	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Chlorobenzene	103	104	76.0	119	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Bromochloromethane	111	110	76.0	119	0.90	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Chloroethane	98	99	93.0	114	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Chloroform	108	107	93.0	114	0.93	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Chloromethane	99	99	61.0	141	0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Cis-1,2-Dichloroethene	99	98	61.0	141	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Cis-1,3-Dichloropropene	108	109	81.0	123	0.92	30
SW8260B	680-169087-1	5/28/19	680-572037	W	Dibromochloromethane	120	118	81.0	123	1.7	30
SW8260B	680-169087-1	5/28/19	680-572037	W	Dibromomethane	112	112	68.0	128	0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Dichlorodifluoromethane	103	102	68.0	128	1	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Ethylbenzene	99	100	85.0	116	1.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/28/19	680-572037	W	Hexachlorobutadiene	83	88	85.0	116	5.8	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Isopropyl Benzene (Cumene)	101	103	71.0	134	2.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Mtbe	111	112	71.0	134	1	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Methylene Chloride	100	100	86.0	117	0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Iodomethane	99	98	86.0	117	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	m,p-Xylene	101	101	90.0	110	0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Naphthalene	112	117	90.0	110	4.4	20
SW8260B	680-169087-1	5/28/19	680-572037	W	N-Butylbenzene	91	95	81.0	113	4.3	50
SW8260B	680-169087-1	5/28/19	680-572037	W	N-Propylbenzene	100	102	81.0	113	2.0	50
SW8260B	680-169087-1	5/28/19	680-572037	W	O-Xylene	101	102	89.0	116	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	P-Isopropyltoluene (Cymene)	94	97	89.0	116	3.1	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Sec-Butylbenzene	99	101	86.0	117	2.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Styrene	103	108	86.0	117	4.7	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Tert-Butylbenzene	101	103	91.0	109	2.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Tetrachloroethylene	105	105	91.0	109	0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Toluene	104	105	86.0	116	1.0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Trans-1,2-Dichloroethene	99	99	86.0	116	0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Trans-1,3-Dichloropropene	117	116	90.0	111	1	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Trans-1,4-Dichloro-2-Butene	108	112	90.0	111	3.6	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Trichloroethene	109	109	76.0	126	0	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Trichlorofluoromethane	95	98	76.0	126	3.1	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Vinyl Chloride	93	92	83.0	131	1.1	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Vinyl Acetate	81	83	83.0	131	2.4	20
SW8260B	680-169087-1	5/28/19	680-572037	W	Xylenes (Total)	101	102	87.0	113	0.99	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,1,1,2-Tetrachloroethane	115	117	87.0	113	1.7	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,1,1-Trichloroethane	113	115	74.0	127	1.8	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,1,2,2-Tetrachloroethane	99	97	74.0	127	2.0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	113	110	85.0	116	2.7	30
SW8260B	680-169087-1	5/28/19	680-572047	W	1,1,2-Trichloroethane	102	101	85.0	116	0.99	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,1-Dichloroethane	92	94	76.0	124	2.2	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,1-Dichloroethene	92	92	76.0	124	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,1-Dichloropropene	98	97	70.0	135	1.0	30
SW8260B	680-169087-1	5/28/19	680-572047	W	1,2,3-Trichlorobenzene	117	118	70.0	135	0.85	30

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/28/19	680-572047	W	1,2,3-Trichloropropane	116	118	91.0	114	1.7	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,2,4-Trichlorobenzene	113	114	91.0	114	0.88	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,2,4-Trimethylbenzene	114	113	83.0	121	0.88	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,2-Dibromo-3-Chloropropane	106	106	83.0	121	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,2-Dibromoethane	111	112	89.0	115	0.90	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,2-Dichlorobenzene	98	97	89.0	115	1.0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,2-Dichloroethane	117	121	85.0	115	3.4	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,2-Dichloropropane	90	91	85.0	115	1.1	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,3,5-Trimethylbenzene	112	112	74.0	126	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,3-Dichlorobenzene	96	96	74.0	126	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,3-Dichloropropane	103	104	62.0	130	1.0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	1,4-Dichlorobenzene	95	93	62.0	130	2.1	20
SW8260B	680-169087-1	5/28/19	680-572047	W	2,2-Dichloropropane	90	92	84.0	118	2.2	20
SW8260B	680-169087-1	5/28/19	680-572047	W	2-Butanone (MEK)	90	94	84.0	118	4.3	20
SW8260B	680-169087-1	5/28/19	680-572047	W	2-Chlorotoluene	106	106	76.0	123	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	2-Hexanone	91	91	76.0	123	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	4-Chlorotoluene	108	108	86.0	119	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	4-Methyl-2-Pentanone (MIBK)	88	90	86.0	119	2.2	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Acetone	78	77	66.0	135	1.3	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Acrylonitrile	82	85	66.0	135	3.6	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Benzene	91	92	88.0	108	1.1	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Bromobenzene	120	120	88.0	108	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Bromodichloromethane	112	113	69.0	131	0.89	30
SW8260B	680-169087-1	5/28/19	680-572047	W	4-Bromofluorobenzene	84	84	69.0	131	0	30
SW8260B	680-169087-1	5/28/19	680-572047	W	Bromoform	130	134	91.0	110	3.0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Bromomethane	57	56	91.0	110	1.8	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Carbon Disulfide	85	85	89.0	116	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Carbon Tetrachloride	123	122	89.0	116	0.82	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Chlorobenzene	105	105	80.0	121	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Bromochloromethane	109	113	80.0	121	3.6	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Chloroethane	69	69	85.0	113	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Chloroform	104	109	85.0	113	4.7	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Chloromethane	68	69	47.0	155	1.5	40

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/28/19	680-572047	W	Cis-1,2-Dichloroethene	91	91	47.0	155	0	40
SW8260B	680-169087-1	5/28/19	680-572047	W	Cis-1,3-Dichloropropene	99	101	92.0	112	2.0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Dibromochloromethane	122	125	92.0	112	2.4	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Dibromomethane	106	106	60.0	140	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Dichlorodifluoromethane	110	108	60.0	140	1.8	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Ethylbenzene	100	100	88.0	117	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Hexachlorobutadiene	129	126	88.0	117	2.4	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Isopropyl Benzene (Cumene)	106	105	93.0	111	0.95	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Mtbe	102	106	93.0	111	3.8	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Methylene Chloride	87	89	87.0	115	2.3	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Iodomethane	58	53	87.0	115	9.0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	m,p-Xylene	103	102	86.0	117	1.0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Naphthalene	121	128	86.0	117	5.6	20
SW8260B	680-169087-1	5/28/19	680-572047	W	N-Butylbenzene	90	87	59.0	140	3.4	20
SW8260B	680-169087-1	5/28/19	680-572047	W	N-Propylbenzene	105	102	59.0	140	2.9	20
SW8260B	680-169087-1	5/28/19	680-572047	W	O-Xylene	103	103	87.0	117	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	P-Isopropyltoluene (Cymene)	96	94	87.0	117	2.1	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Sec-Butylbenzene	109	108	87.0	117	0.92	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Styrene	106	106	87.0	117	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Tert-Butylbenzene	113	112	91.0	112	0.89	30
SW8260B	680-169087-1	5/28/19	680-572047	W	Tetrachloroethylene	122	123	91.0	112	0.82	30
SW8260B	680-169087-1	5/28/19	680-572047	W	Toluene	100	101	91.0	113	1	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Trans-1,2-Dichloroethene	96	98	91.0	113	2.1	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Trans-1,3-Dichloropropene	108	110	84.0	119	1.8	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Trans-1,4-Dichloro-2-Butene	102	104	84.0	119	1.9	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Trichloroethene	114	114	90.0	117	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Trichlorofluoromethane	111	110	90.0	117	1	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Vinyl Chloride	79	79	83.0	121	0	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Vinyl Acetate	83	86	83.0	121	3.6	20
SW8260B	680-169087-1	5/28/19	680-572047	W	Xylenes (Total)	103	103	86.0	121	0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,1,1,2-Tetrachloroethane	106	109	86.0	121	2.8	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,1,1-Trichloroethane	106	106	93.0	113	0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,1,2,2-Tetrachloroethane	101	105	93.0	113	3.9	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/29/19	680-572112	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	111	111	94.0	113	0	30
SW8260B	680-169087-1	5/29/19	680-572112	W	1,1,2-Trichloroethane	100	102	94.0	113	2.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,1-Dichloroethane	102	103	87.0	113	1.0	30
SW8260B	680-169087-1	5/29/19	680-572112	W	1,1-Dichloroethene	104	103	87.0	113	1	30
SW8260B	680-169087-1	5/29/19	680-572112	W	1,1-Dichloropropene	106	107	91.0	114	0.94	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,2,3-Trichlorobenzene	102	97	91.0	114	5.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,2,3-Trichloropropane	96	99	60.0	141	3.1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,2,4-Trichlorobenzene	106	106	60.0	141	0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,2,4-Trimethylbenzene	104	104	67.0	135	0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,2-Dibromo-3-Chloropropane	104	110	67.0	135	5.6	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,2-Dibromoethane	98	103	71.0	128	5.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,2-Dichlorobenzene	106	106	71.0	128	0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,2-Dichloroethane	96	101	92.0	111	5.1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,2-Dichloropropane	99	103	92.0	111	4.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,3,5-Trimethylbenzene	105	104	84.0	121	1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,3-Dichlorobenzene	105	106	84.0	121	0.95	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,3-Dichloropropane	97	102	80.0	119	5.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	1,4-Dichlorobenzene	105	106	80.0	119	0.95	20
SW8260B	680-169087-1	5/29/19	680-572112	W	2,2-Dichloropropane	112	113	83.0	117	1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	2-Butanone (MEK)	96	104	83.0	117	8.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	2-Chlorotoluene	103	103	88.0	116	0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	2-Hexanone	97	103	88.0	116	6.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	4-Chlorotoluene	103	102	91.0	111	1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	4-Methyl-2-Pentanone (MIBK)	98	105	91.0	111	6.9	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Acetone	90	97	76.0	119	7.5	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Acrylonitrile	96	104	76.0	119	8.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Benzene	100	101	93.0	114	1.00	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Bromobenzene	102	103	93.0	114	1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Bromodichloromethane	106	109	61.0	141	2.8	20
SW8260B	680-169087-1	5/29/19	680-572112	W	4-Bromofluorobenzene	100	102	61.0	141	2.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Bromoform	110	115	81.0	123	4.4	30
SW8260B	680-169087-1	5/29/19	680-572112	W	Bromomethane	105	108	81.0	123	2.8	30
SW8260B	680-169087-1	5/29/19	680-572112	W	Carbon Disulfide	107	106	68.0	128	0.94	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/29/19	680-572112	W	Carbon Tetrachloride	115	121	68.0	128	5.1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Chlorobenzene	103	104	85.0	116	1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Bromochloromethane	95	99	85.0	116	4.1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Chloroethane	106	106	71.0	134	0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Chloroform	100	102	71.0	134	2.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Chloromethane	110	107	86.0	117	2.8	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Cis-1,2-Dichloroethene	101	102	86.0	117	1.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Cis-1,3-Dichloropropene	103	107	90.0	110	3.8	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Dibromochloromethane	103	108	90.0	110	4.7	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Dibromomethane	98	103	81.0	113	5.0	50
SW8260B	680-169087-1	5/29/19	680-572112	W	Dichlorodifluoromethane	113	114	81.0	113	0.88	50
SW8260B	680-169087-1	5/29/19	680-572112	W	Ethylbenzene	105	104	89.0	116	1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Hexachlorobutadiene	114	114	89.0	116	0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Isopropyl Benzene (Cumene)	106	105	86.0	117	1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Mtbe	99	103	86.0	117	4.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Methylene Chloride	98	98	91.0	109	0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Iodomethane	108	101	91.0	109	6.7	20
SW8260B	680-169087-1	5/29/19	680-572112	W	m,p-Xylene	106	103	86.0	116	2.9	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Naphthalene	100	101	86.0	116	1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	N-Butylbenzene	115	114	90.0	111	1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	N-Propylbenzene	107	107	90.0	111	0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	O-Xylene	103	105	76.0	126	1.9	20
SW8260B	680-169087-1	5/29/19	680-572112	W	P-Isopropyltoluene (Cymene)	110	109	76.0	126	1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Sec-Butylbenzene	109	108	83.0	131	0.92	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Styrene	104	105	83.0	131	1.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Tert-Butylbenzene	105	105	87.0	113	0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Tetrachloroethylene	105	107	87.0	113	1.9	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Toluene	103	104	74.0	127	1.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Trans-1,2-Dichloroethene	105	106	74.0	127	1	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Trans-1,3-Dichloropropene	101	106	85.0	116	4.8	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Trans-1,4-Dichloro-2-Butene	106	110	85.0	116	3.7	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Trichloroethene	104	103	76.0	124	1.0	20
SW8260B	680-169087-1	5/29/19	680-572112	W	Trichlorofluoromethane	109	110	76.0	124	0.91	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-169087-1	5/29/19	680-572112	W	Vinyl Chloride	110	109	70.0	135	0.91	30
SW8260B	680-169087-1	5/29/19	680-572112	W	Vinyl Acetate	110	119	70.0	135	7.9	30
SW8260B	680-169087-1	5/29/19	680-572112	W	Xylenes (Total)	105	104	91.0	114	1	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,1,1,2-Tetrachloroethane	113	116	91.0	114	2.6	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,1,1-Trichloroethane	104	105	83.0	121	0.96	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,1,2,2-Tetrachloroethane	107	108	83.0	121	1	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	111	110	89.0	115	1	30
SW8260B	680-160798-1	11/24/18	680-548738	W	1,1,2-Trichloroethane	100	105	89.0	115	4.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,1-Dichloroethane	99	100	85.0	115	1.0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,1-Dichloroethene	108	107	85.0	115	0.93	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,1-Dichloropropene	104	105	74.0	126	1.0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,2,3-Trichlorobenzene	99	98	74.0	126	1.0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,2,3-Trichloropropane	117	117	62.0	130	0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,2,4-Trichlorobenzene	98	97	62.0	130	1.0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,2,4-Trimethylbenzene	103	106	84.0	118	2.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,2-Dibromo-3-Chloropropane	95	98	84.0	118	3.1	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,2-Dibromoethane	102	105	76.0	123	2.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,2-Dichlorobenzene	104	106	76.0	123	1.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,2-Dichloroethane	98	101	86.0	119	3.0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,2-Dichloropropane	96	99	86.0	119	3.1	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,3,5-Trimethylbenzene	106	108	66.0	135	1.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,3-Dichlorobenzene	109	110	66.0	135	0.91	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,3-Dichloropropane	98	104	88.0	108	5.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	1,4-Dichlorobenzene	105	107	88.0	108	1.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	2,2-Dichloropropane	111	112	69.0	131	1	30
SW8260B	680-160798-1	11/24/18	680-548738	W	2-Butanone (MEK)	89	91	69.0	131	2.2	30
SW8260B	680-160798-1	11/24/18	680-548738	W	2-Chlorotoluene	108	112	91.0	110	3.6	20
SW8260B	680-160798-1	11/24/18	680-548738	W	2-Hexanone	90	95	91.0	110	5.4	20
SW8260B	680-160798-1	11/24/18	680-548738	W	4-Chlorotoluene	108	110	89.0	116	1.8	20
SW8260B	680-160798-1	11/24/18	680-548738	W	4-Methyl-2-Pentanone (MIBK)	91	95	89.0	116	4.3	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Acetone	88	91	80.0	121	3.4	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Acrylonitrile	87	91	80.0	121	4.5	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Benzene	98	100	85.0	113	2.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/24/18	680-548738	W	Bromobenzene	108	110	85.0	113	1.8	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Bromodichloromethane	97	98	47.0	155	1.0	40
SW8260B	680-160798-1	11/24/18	680-548738	W	4-Bromofluorobenzene	91	90	47.0	155	1.1	40
SW8260B	680-160798-1	11/24/18	680-548738	W	Bromoform	84	85	92.0	112	1.2	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Bromomethane	123	120	92.0	112	2.5	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Carbon Disulfide	98	99	60.0	140	1.0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Carbon Tetrachloride	101	100	60.0	140	1.0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Chlorobenzene	107	109	88.0	117	1.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Bromochloromethane	95	98	88.0	117	3.1	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Chloroethane	97	103	93.0	111	6.0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Chloroform	101	104	93.0	111	2.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Chloromethane	101	101	87.0	115	0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Cis-1,2-Dichloroethene	94	95	87.0	115	1.1	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Cis-1,3-Dichloropropene	97	100	86.0	117	3.0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Dibromochloromethane	95	98	86.0	117	3.1	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Dibromomethane	100	104	59.0	140	3.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Dichlorodifluoromethane	123	126	59.0	140	2.4	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Ethylbenzene	110	109	87.0	117	0.91	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Hexachlorobutadiene	95	97	87.0	117	2.1	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Isopropyl Benzene (Cumene)	112	111	87.0	117	1	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Mtbe	95	97	87.0	117	2.1	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Methylene Chloride	101	99	91.0	112	2.0	30
SW8260B	680-160798-1	11/24/18	680-548738	W	Iodomethane	99	100	91.0	112	1.0	30
SW8260B	680-160798-1	11/24/18	680-548738	W	m,p-Xylene	108	109	91.0	113	0.92	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Naphthalene	113	114	91.0	113	0.88	20
SW8260B	680-160798-1	11/24/18	680-548738	W	N-Butylbenzene	108	107	84.0	119	0.93	20
SW8260B	680-160798-1	11/24/18	680-548738	W	N-Propylbenzene	111	113	84.0	119	1.8	20
SW8260B	680-160798-1	11/24/18	680-548738	W	O-Xylene	105	108	90.0	117	2.8	20
SW8260B	680-160798-1	11/24/18	680-548738	W	P-Isopropyltoluene (Cymene)	106	105	90.0	117	0.95	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Sec-Butylbenzene	110	112	83.0	121	1.8	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Styrene	105	106	83.0	121	0.95	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Tert-Butylbenzene	107	109	86.0	121	1.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Tetrachloroethylene	108	108	86.0	121	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/24/18	680-548738	W	Toluene	98	99	93.0	113	1.0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Trans-1,2-Dichloroethene	100	102	93.0	113	2.0	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Trans-1,3-Dichloropropene	94	99	94.0	113	5.2	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Trans-1,4-Dichloro-2-Butene	101	109	94.0	113	7.6	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Trichloroethene	101	104	87.0	113	2.9	30
SW8260B	680-160798-1	11/24/18	680-548738	W	Trichlorofluoromethane	113	114	87.0	113	0.88	30
SW8260B	680-160798-1	11/24/18	680-548738	W	Vinyl Chloride	103	105	91.0	114	1.9	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Vinyl Acetate	106	111	91.0	114	4.6	20
SW8260B	680-160798-1	11/24/18	680-548738	W	Xylenes (Total)	107	108	60.0	141	0.93	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,1,1,2-Tetrachloroethane	100	104	60.0	141	3.9	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,1,1-Trichloroethane	100	98	67.0	135	2.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,1,2,2-Tetrachloroethane	96	95	67.0	135	1.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	107	94	71.0	128	13	30
SW8260B	680-160798-1	11/26/18	680-548796	W	1,1,2-Trichloroethane	98	96	71.0	128	2.1	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,1-Dichloroethane	99	97	92.0	111	2.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,1-Dichloroethene	102	100	92.0	111	2.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,1-Dichloropropene	99	98	84.0	121	1.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,2,3-Trichlorobenzene	95	95	84.0	121	0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,2,3-Trichloropropane	98	98	80.0	119	0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,2,4-Trichlorobenzene	97	99	80.0	119	2.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,2,4-Trimethylbenzene	96	98	83.0	117	2.1	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,2-Dibromo-3-Chloropropane	94	98	83.0	117	4.2	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,2-Dibromoethane	101	98	88.0	116	3.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,2-Dichlorobenzene	99	100	88.0	116	1.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,2-Dichloroethane	102	102	91.0	111	0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,2-Dichloropropane	100	98	91.0	111	2.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,3,5-Trimethylbenzene	99	102	76.0	119	3.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,3-Dichlorobenzene	99	102	76.0	119	3.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,3-Dichloropropane	96	97	93.0	114	1.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	1,4-Dichlorobenzene	98	100	93.0	114	2.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	2,2-Dichloropropane	109	105	61.0	141	3.7	20
SW8260B	680-160798-1	11/26/18	680-548796	W	2-Butanone (MEK)	95	96	61.0	141	1.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	2-Chlorotoluene	97	99	81.0	123	2.0	30

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/26/18	680-548796	W	2-Hexanone	98	98	81.0	123	0	30
SW8260B	680-160798-1	11/26/18	680-548796	W	4-Chlorotoluene	99	102	68.0	128	3.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	4-Methyl-2-Pentanone (MIBK)	96	96	68.0	128	0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Acetone	102	101	85.0	116	0.99	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Acrylonitrile	97	97	85.0	116	0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Benzene	99	98	71.0	134	1.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Bromobenzene	104	107	71.0	134	2.8	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Bromodichloromethane	98	97	86.0	117	1.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	4-Bromofluorobenzene	96	96	86.0	117	0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Bromoform	100	106	90.0	110	5.8	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Bromomethane	89	90	90.0	110	1.1	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Carbon Disulfide	104	106	81.0	113	1.9	50
SW8260B	680-160798-1	11/26/18	680-548796	W	Carbon Tetrachloride	107	99	81.0	113	7.8	50
SW8260B	680-160798-1	11/26/18	680-548796	W	Chlorobenzene	100	102	89.0	116	2.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Bromochloromethane	104	102	89.0	116	1.9	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Chloroethane	120	123	86.0	117	2.5	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Chloroform	97	96	86.0	117	1.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Chloromethane	109	104	91.0	109	4.7	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Cis-1,2-Dichloroethene	94	93	91.0	109	1.1	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Cis-1,3-Dichloropropene	99	98	86.0	116	1.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Dibromochloromethane	100	102	86.0	116	2.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Dibromomethane	99	99	90.0	111	0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Dichlorodifluoromethane	115	102	90.0	111	12	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Ethylbenzene	100	103	76.0	126	3.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Hexachlorobutadiene	96	98	76.0	126	2.1	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Isopropyl Benzene (Cumene)	101	103	83.0	131	2.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Mtbe	98	97	83.0	131	1.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Methylene Chloride	92	91	87.0	113	1.1	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Iodomethane	102	103	87.0	113	0.98	20
SW8260B	680-160798-1	11/26/18	680-548796	W	m,p-Xylene	100	102	74.0	127	2.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Naphthalene	90	94	74.0	127	4.3	20
SW8260B	680-160798-1	11/26/18	680-548796	W	N-Butylbenzene	91	90	85.0	116	1.1	20
SW8260B	680-160798-1	11/26/18	680-548796	W	N-Propylbenzene	100	101	85.0	116	1.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/26/18	680-548796	W	O-Xylene	98	101	76.0	124	3.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	P-Isopropyltoluene (Cymene)	95	95	76.0	124	0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Sec-Butylbenzene	95	95	70.0	135	0	30
SW8260B	680-160798-1	11/26/18	680-548796	W	Styrene	101	104	70.0	135	2.9	30
SW8260B	680-160798-1	11/26/18	680-548796	W	Tert-Butylbenzene	100	101	91.0	114	1.00	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Tetrachloroethylene	112	109	91.0	114	2.7	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Toluene	101	101	83.0	121	0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Trans-1,2-Dichloroethene	101	100	83.0	121	1.00	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Trans-1,3-Dichloropropene	99	101	89.0	115	2.0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Trans-1,4-Dichloro-2-Butene	92	94	89.0	115	2.2	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Trichloroethene	93	93	85.0	115	0	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Trichlorofluoromethane	117	107	85.0	115	8.9	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Vinyl Chloride	114	111	74.0	126	2.7	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Vinyl Acetate	109	106	74.0	126	2.8	20
SW8260B	680-160798-1	11/26/18	680-548796	W	Xylenes (Total)	99	101	62.0	130	2.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,1,1,2-Tetrachloroethane	102	103	62.0	130	1.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,1,1-Trichloroethane	102	101	84.0	118	1	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,1,2,2-Tetrachloroethane	98	97	84.0	118	1.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	101	103	76.0	123	2.0	30
SW8260B	680-160798-1	11/27/18	680-548964	W	1,1,2-Trichloroethane	102	101	76.0	123	0.99	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,1-Dichloroethane	102	101	86.0	119	0.99	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,1-Dichloroethene	99	98	86.0	119	1.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,1-Dichloropropene	100	103	66.0	135	3.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,2,3-Trichlorobenzene	99	98	66.0	135	1.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,2,3-Trichloropropane	102	100	88.0	108	2.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,2,4-Trichlorobenzene	100	102	88.0	108	2.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,2,4-Trimethylbenzene	100	102	69.0	131	2.0	30
SW8260B	680-160798-1	11/27/18	680-548964	W	1,2-Dibromo-3-Chloropropane	100	97	69.0	131	3.0	30
SW8260B	680-160798-1	11/27/18	680-548964	W	1,2-Dibromoethane	103	109	91.0	110	5.7	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,2-Dichlorobenzene	101	101	91.0	110	0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,2-Dichloroethane	109	108	89.0	116	0.92	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,2-Dichloropropane	99	100	89.0	116	1.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,3,5-Trimethylbenzene	102	100	80.0	121	2.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/27/18	680-548964	W	1,3-Dichlorobenzene	102	104	80.0	121	1.9	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,3-Dichloropropane	104	101	85.0	113	2.9	20
SW8260B	680-160798-1	11/27/18	680-548964	W	1,4-Dichlorobenzene	99	108	85.0	113	8.7	20
SW8260B	680-160798-1	11/27/18	680-548964	W	2,2-Dichloropropane	110	98	47.0	155	12	40
SW8260B	680-160798-1	11/27/18	680-548964	W	2-Butanone (MEK)	100	108	47.0	155	7.7	40
SW8260B	680-160798-1	11/27/18	680-548964	W	2-Chlorotoluene	100	98	92.0	112	2.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	2-Hexanone	102	100	92.0	112	2.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	4-Chlorotoluene	102	104	60.0	140	1.9	20
SW8260B	680-160798-1	11/27/18	680-548964	W	4-Methyl-2-Pentanone (MIBK)	100	103	60.0	140	3.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Acetone	104	101	88.0	117	2.9	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Acrylonitrile	101	101	88.0	117	0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Benzene	101	100	93.0	111	1.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Bromobenzene	107	101	93.0	111	5.8	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Bromodichloromethane	102	111	87.0	115	8.5	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Bromoform	108	105	87.0	115	2.8	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Bromomethane	77	102	86.0	117	28	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Carbon Disulfide	106	108	86.0	117	1.9	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Carbon Tetrachloride	107	78	59.0	140	31	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Chlorobenzene	101	108	59.0	140	6.7	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Bromochloromethane	107	107	87.0	117	0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Chloroethane	118	103	87.0	117	14	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Chloroform	100	125	87.0	117	22	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Chloromethane	106	99	87.0	117	6.8	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Cis-1,2-Dichloroethene	97	107	91.0	112	9.8	30
SW8260B	680-160798-1	11/27/18	680-548964	W	Cis-1,3-Dichloropropene	99	97	91.0	112	2.0	30
SW8260B	680-160798-1	11/27/18	680-548964	W	Dibromochloromethane	104	100	91.0	113	3.9	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Dibromomethane	109	100	91.0	113	8.6	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Dichlorodifluoromethane	102	109	84.0	119	6.6	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Ethylbenzene	102	112	84.0	119	9.3	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Hexachlorobutadiene	95	103	90.0	117	8.1	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Isopropyl Benzene (Cumene)	101	103	90.0	117	2.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Mtbe	101	111	83.0	121	9.4	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Methylene Chloride	99	102	83.0	121	3.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/27/18	680-548964	W	Iodomethane	109	103	86.0	121	5.7	20
SW8260B	680-160798-1	11/27/18	680-548964	W	m,p-Xylene	102	101	86.0	121	1	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Naphthalene	97	101	93.0	113	4.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	N-Butylbenzene	90	93	93.0	113	3.3	20
SW8260B	680-160798-1	11/27/18	680-548964	W	N-Propylbenzene	100	91	94.0	113	9.4	20
SW8260B	680-160798-1	11/27/18	680-548964	W	O-Xylene	100	102	94.0	113	2.0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	P-Isopropyltoluene (Cymene)	92	101	87.0	113	9.3	30
SW8260B	680-160798-1	11/27/18	680-548964	W	Sec-Butylbenzene	95	94	87.0	113	1.1	30
SW8260B	680-160798-1	11/27/18	680-548964	W	Styrene	110	98	91.0	114	12	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Tert-Butylbenzene	101	111	91.0	114	9.4	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Tetrachloroethylene	111	104	60.0	141	6.5	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Toluene	102	123	60.0	141	19	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Trans-1,2-Dichloroethene	102	104	67.0	135	1.9	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Trans-1,3-Dichloropropene	106	101	67.0	135	4.8	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Trans-1,4-Dichloro-2-Butene	93	106	71.0	128	13	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Trichloroethene	97	87	71.0	128	11	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Trichlorofluoromethane	110	94	92.0	111	16	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Vinyl Chloride	105	111	92.0	111	5.6	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Vinyl Acetate	112	112	84.0	121	0	20
SW8260B	680-160798-1	11/27/18	680-548964	W	Xylenes (Total)	101	107	84.0	121	5.8	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,1,1,2-Tetrachloroethane	103	102	80.0	119	1.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,1,1-Trichloroethane	111	112	80.0	119	0.90	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,1,2,2-Tetrachloroethane	92	96	83.0	117	4.3	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	104	102	83.0	117	1.9	30
SW8260B	680-160798-1	11/27/18	680-548961	W	1,1,2-Trichloroethane	90	94	88.0	116	4.3	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,1-Dichloroethane	95	96	88.0	116	1.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,1-Dichloroethene	95	94	91.0	111	1.1	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,1-Dichloropropene	107	107	91.0	111	0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,2,3-Trichlorobenzene	113	114	76.0	119	0.88	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,2,3-Trichloropropane	94	100	76.0	119	6.2	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,2,4-Trichlorobenzene	110	112	93.0	114	1.8	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,2,4-Trimethylbenzene	100	102	93.0	114	2.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,2-Dibromo-3-Chloropropane	104	108	61.0	141	3.8	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/27/18	680-548961	W	1,2-Dibromoethane	96	100	61.0	141	4.1	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,2-Dichlorobenzene	93	96	81.0	123	3.2	30
SW8260B	680-160798-1	11/27/18	680-548961	W	1,2-Dichloroethane	102	105	81.0	123	2.9	30
SW8260B	680-160798-1	11/27/18	680-548961	W	1,2-Dichloropropane	94	96	68.0	128	2.1	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,3,5-Trimethylbenzene	102	101	68.0	128	1	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,3-Dichlorobenzene	96	94	85.0	116	2.1	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,3-Dichloropropane	90	94	85.0	116	4.3	20
SW8260B	680-160798-1	11/27/18	680-548961	W	1,4-Dichlorobenzene	96	94	71.0	134	2.1	20
SW8260B	680-160798-1	11/27/18	680-548961	W	2,2-Dichloropropane	112	114	71.0	134	1.8	20
SW8260B	680-160798-1	11/27/18	680-548961	W	2-Butanone (MEK)	91	97	86.0	117	6.4	20
SW8260B	680-160798-1	11/27/18	680-548961	W	2-Chlorotoluene	99	99	86.0	117	0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	2-Hexanone	79	83	90.0	110	4.9	20
SW8260B	680-160798-1	11/27/18	680-548961	W	4-Chlorotoluene	101	100	90.0	110	1.00	20
SW8260B	680-160798-1	11/27/18	680-548961	W	4-Methyl-2-Pentanone (MIBK)	82	86	81.0	113	4.8	50
SW8260B	680-160798-1	11/27/18	680-548961	W	Acetone	82	88	81.0	113	7.1	50
SW8260B	680-160798-1	11/27/18	680-548961	W	Acrylonitrile	83	89	89.0	116	7.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Benzene	96	98	89.0	116	2.1	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Bromobenzene	103	105	86.0	117	1.9	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Bromodichloromethane	106	108	86.0	117	1.9	20
SW8260B	680-160798-1	11/27/18	680-548961	W	4-Bromofluorobenzene	89	89	91.0	109	0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Bromoform	109	115	91.0	109	5.4	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Bromomethane	95	94	86.0	116	1.1	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Carbon Disulfide	98	99	86.0	116	1.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Carbon Tetrachloride	115	116	90.0	111	0.87	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Chlorobenzene	99	101	90.0	111	2.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Bromochloromethane	104	109	76.0	126	4.7	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Chloroethane	98	98	76.0	126	0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Chloroform	106	107	83.0	131	0.94	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Chloromethane	79	80	83.0	131	1.3	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Cis-1,2-Dichloroethene	102	100	87.0	113	2.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Cis-1,3-Dichloropropene	85	89	87.0	113	4.6	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Dibromochloromethane	104	108	74.0	127	3.8	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Dibromomethane	101	101	74.0	127	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/27/18	680-548961	W	Dichlorodifluoromethane	93	95	85.0	116	2.1	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Ethylbenzene	99	97	85.0	116	2.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Hexachlorobutadiene	114	111	76.0	124	2.7	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Isopropyl Benzene (Cumene)	99	99	76.0	124	0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Mtbe	96	100	70.0	135	4.1	30
SW8260B	680-160798-1	11/27/18	680-548961	W	Methylene Chloride	90	94	70.0	135	4.3	30
SW8260B	680-160798-1	11/27/18	680-548961	W	Iodomethane	99	97	91.0	114	2.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	m,p-Xylene	101	100	91.0	114	1.00	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Naphthalene	99	99	83.0	121	0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	N-Butylbenzene	95	92	83.0	121	3.2	20
SW8260B	680-160798-1	11/27/18	680-548961	W	N-Propylbenzene	100	101	89.0	115	1.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	O-Xylene	99	99	89.0	115	0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	P-Isopropyltoluene (Cymene)	96	95	85.0	115	1.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Sec-Butylbenzene	101	100	85.0	115	1.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Styrene	99	101	74.0	126	2.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Tert-Butylbenzene	103	102	74.0	126	0.98	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Tetrachloroethylene	104	103	62.0	130	0.97	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Toluene	96	98	62.0	130	2.1	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Trans-1,2-Dichloroethene	101	99	84.0	118	2.0	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Trans-1,3-Dichloropropene	95	100	84.0	118	5.1	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Trans-1,4-Dichloro-2-Butene	108	112	76.0	123	3.6	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Trichloroethene	103	104	76.0	123	0.97	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Trichlorofluoromethane	113	112	86.0	119	0.89	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Vinyl Chloride	85	86	86.0	119	1.2	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Vinyl Acetate	89	95	66.0	135	6.5	20
SW8260B	680-160798-1	11/27/18	680-548961	W	Xylenes (Total)	100	100	66.0	135	0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,1,1,2-Tetrachloroethane	100	101	88.0	108	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,1,1-Trichloroethane	97	98	88.0	108	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,1,2,2-Tetrachloroethane	105	108	69.0	131	2.8	30
SW8260B	680-160798-1	11/28/18	680-549154	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	104	102	69.0	131	1.9	30
SW8260B	680-160798-1	11/28/18	680-549154	W	1,1,2-Trichloroethane	98	102	91.0	110	4.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,1-Dichloroethane	96	99	91.0	110	3.1	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,1-Dichloroethene	98	98	89.0	116	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/28/18	680-549154	W	1,1-Dichloropropene	104	104	89.0	116	0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,2,3-Trichlorobenzene	129	124	80.0	121	4.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,2,3-Trichloropropane	101	105	80.0	121	3.9	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,2,4-Trichlorobenzene	114	113	85.0	113	0.88	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,2,4-Trimethylbenzene	101	103	85.0	113	2.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,2-Dibromo-3-Chloropropane	112	114	47.0	155	1.8	40
SW8260B	680-160798-1	11/28/18	680-549154	W	1,2-Dibromoethane	97	102	47.0	155	5.0	40
SW8260B	680-160798-1	11/28/18	680-549154	W	1,2-Dichlorobenzene	102	101	92.0	112	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,2-Dichloroethane	92	95	92.0	112	3.2	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,2-Dichloropropane	102	103	60.0	140	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,3,5-Trimethylbenzene	102	103	60.0	140	1	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,3-Dichlorobenzene	100	100	88.0	117	0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,3-Dichloropropane	97	101	88.0	117	4.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	1,4-Dichlorobenzene	98	97	93.0	111	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	2,2-Dichloropropane	109	110	93.0	111	0.91	20
SW8260B	680-160798-1	11/28/18	680-549154	W	2-Butanone (MEK)	90	93	87.0	115	3.3	20
SW8260B	680-160798-1	11/28/18	680-549154	W	2-Chlorotoluene	99	101	87.0	115	2.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	2-Hexanone	99	104	86.0	117	4.9	20
SW8260B	680-160798-1	11/28/18	680-549154	W	4-Chlorotoluene	101	102	86.0	117	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	4-Methyl-2-Pentanone (MIBK)	100	103	59.0	140	3.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Acetone	87	91	59.0	140	4.5	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Acrylonitrile	99	103	87.0	117	4.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Benzene	100	101	87.0	117	1.00	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Bromobenzene	99	100	87.0	117	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Bromodichloromethane	96	100	87.0	117	4.1	20
SW8260B	680-160798-1	11/28/18	680-549154	W	4-Bromofluorobenzene	96	95	91.0	112	1.0	30
SW8260B	680-160798-1	11/28/18	680-549154	W	Bromoform	102	107	91.0	112	4.8	30
SW8260B	680-160798-1	11/28/18	680-549154	W	Bromomethane	97	97	91.0	113	0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Carbon Disulfide	96	98	91.0	113	2.1	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Carbon Tetrachloride	98	99	84.0	119	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Chlorobenzene	98	100	84.0	119	2.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Bromochloromethane	94	98	90.0	117	4.2	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Chloroethane	97	100	90.0	117	3.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/28/18	680-549154	W	Chloroform	96	98	83.0	121	2.1	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Chloromethane	95	97	83.0	121	2.1	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Cis-1,2-Dichloroethene	96	98	86.0	121	2.1	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Cis-1,3-Dichloropropene	100	104	86.0	121	3.9	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Dibromochloromethane	97	100	93.0	113	3.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Dibromomethane	94	98	93.0	113	4.2	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Dichlorodifluoromethane	85	86	94.0	113	1.2	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Ethylbenzene	101	102	94.0	113	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Hexachlorobutadiene	113	110	87.0	113	2.7	30
SW8260B	680-160798-1	11/28/18	680-549154	W	Isopropyl Benzene (Cumene)	101	102	87.0	113	0.99	30
SW8260B	680-160798-1	11/28/18	680-549154	W	Mtbe	99	100	91.0	114	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Methylene Chloride	102	106	91.0	114	3.8	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Iodomethane	97	99	60.0	141	2.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	m,p-Xylene	100	102	60.0	141	2.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Naphthalene	126	124	67.0	135	1.6	20
SW8260B	680-160798-1	11/28/18	680-549154	W	N-Butylbenzene	106	103	67.0	135	2.9	20
SW8260B	680-160798-1	11/28/18	680-549154	W	N-Propylbenzene	102	102	71.0	128	0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	O-Xylene	101	103	71.0	128	2.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	P-Isopropyltoluene (Cymene)	101	100	92.0	111	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Sec-Butylbenzene	102	102	92.0	111	0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Styrene	104	106	84.0	121	1.9	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Tert-Butylbenzene	99	100	80.0	119	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Tetrachloroethylene	96	97	83.0	117	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Toluene	97	99	88.0	116	2.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Trans-1,2-Dichloroethene	103	104	91.0	111	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Trans-1,3-Dichloropropene	95	99	76.0	119	4.1	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Trans-1,4-Dichloro-2-Butene	96	96	93.0	114	0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Trichloroethene	98	98	61.0	141	0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Trichlorofluoromethane	89	89	81.0	123	0	30
SW8260B	680-160798-1	11/28/18	680-549154	W	Vinyl Chloride	98	99	68.0	128	1.0	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Vinyl Acetate	124	125	85.0	116	1	20
SW8260B	680-160798-1	11/28/18	680-549154	W	Xylenes (Total)	100	102	71.0	134	2.0	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,1,1,2-Tetrachloroethane	117	109	86.0	117	7.1	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/28/18	680-549156	W	1,1,1-Trichloroethane	102	97	90.0	110	5.0	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,1,2,2-Tetrachloroethane	113	104	81.0	113	8.3	50
SW8260B	680-160798-1	11/28/18	680-549156	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	113	109	89.0	116	3.6	30
SW8260B	680-160798-1	11/28/18	680-549156	W	1,1,2-Trichloroethane	103	93	86.0	117	10	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,1-Dichloroethane	97	86	91.0	109	12	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,1-Dichloroethene	109	99	86.0	116	9.6	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,1-Dichloropropene	103	99	90.0	111	4.0	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,2,3-Trichlorobenzene	97	90	76.0	126	7.5	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,2,3-Trichloropropane	121	112	83.0	131	7.7	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,2,4-Trichlorobenzene	97	90	87.0	113	7.5	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,2,4-Trimethylbenzene	106	99	74.0	127	6.8	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,2-Dibromo-3-Chloropropane	103	93	85.0	116	10	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,2-Dibromoethane	109	100	76.0	124	8.6	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,2-Dichlorobenzene	107	99	70.0	135	7.8	30
SW8260B	680-160798-1	11/28/18	680-549156	W	1,2-Dichloroethane	98	92	91.0	114	6.3	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,2-Dichloropropane	93	88	83.0	121	5.5	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,3,5-Trimethylbenzene	108	101	89.0	115	6.7	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,3-Dichlorobenzene	111	103	85.0	115	7.5	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,3-Dichloropropane	103	96	74.0	126	7.0	20
SW8260B	680-160798-1	11/28/18	680-549156	W	1,4-Dichlorobenzene	107	99	62.0	130	7.8	20
SW8260B	680-160798-1	11/28/18	680-549156	W	2,2-Dichloropropane	105	101	84.0	118	3.9	20
SW8260B	680-160798-1	11/28/18	680-549156	W	2-Butanone (MEK)	97	88	76.0	123	9.7	20
SW8260B	680-160798-1	11/28/18	680-549156	W	2-Chlorotoluene	112	104	86.0	119	7.4	20
SW8260B	680-160798-1	11/28/18	680-549156	W	2-Hexanone	103	92	66.0	135	11	20
SW8260B	680-160798-1	11/28/18	680-549156	W	4-Chlorotoluene	109	101	88.0	108	7.6	20
SW8260B	680-160798-1	11/28/18	680-549156	W	4-Methyl-2-Pentanone (MIBK)	104	94	69.0	131	10	30
SW8260B	680-160798-1	11/28/18	680-549156	W	Acetone	108	96	91.0	110	12	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Acrylonitrile	92	83	89.0	116	10	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Benzene	98	93	80.0	121	5.2	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Bromobenzene	110	101	85.0	113	8.5	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Bromodichloromethane	95	89	47.0	155	6.5	40
SW8260B	680-160798-1	11/28/18	680-549156	W	4-Bromofluorobenzene	94	88	92.0	112	6.6	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Bromoform	88	81	60.0	140	8.3	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/28/18	680-549156	W	Bromomethane	129	118	88.0	117	8.9	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Carbon Disulfide	99	95	93.0	111	4.1	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Carbon Tetrachloride	101	96	87.0	115	5.1	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Chlorobenzene	110	101	86.0	117	8.5	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Bromochloromethane	98	92	59.0	140	6.3	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Chloroethane	97	92	87.0	117	5.3	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Chloroform	99	92	87.0	117	7.3	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Chloromethane	101	97	91.0	112	4.0	30
SW8260B	680-160798-1	11/28/18	680-549156	W	Cis-1,2-Dichloroethene	92	87	91.0	113	5.6	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Cis-1,3-Dichloropropene	95	88	84.0	119	7.7	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Dibromochloromethane	100	91	90.0	117	9.4	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Dibromomethane	103	96	83.0	121	7.0	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Dichlorodifluoromethane	120	119	86.0	121	0.84	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Ethylbenzene	112	105	93.0	113	6.5	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Hexachlorobutadiene	94	87	94.0	113	7.7	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Isopropyl Benzene (Cumene)	114	106	87.0	113	7.3	30
SW8260B	680-160798-1	11/28/18	680-549156	W	Mtbe	101	88	91.0	114	14	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Methylene Chloride	101	95	60.0	141	6.1	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Iodomethane	103	98	67.0	135	5.0	20
SW8260B	680-160798-1	11/28/18	680-549156	W	m,p-Xylene	110	103	71.0	128	6.6	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Naphthalene	113	104	92.0	111	8.3	20
SW8260B	680-160798-1	11/28/18	680-549156	W	N-Butylbenzene	105	100	84.0	121	4.9	20
SW8260B	680-160798-1	11/28/18	680-549156	W	N-Propylbenzene	112	106	80.0	119	5.5	20
SW8260B	680-160798-1	11/28/18	680-549156	W	O-Xylene	109	101	83.0	117	7.6	20
SW8260B	680-160798-1	11/28/18	680-549156	W	P-Isopropyltoluene (Cymene)	103	99	88.0	116	4.0	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Sec-Butylbenzene	111	106	91.0	111	4.6	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Styrene	114	106	76.0	119	7.3	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Tert-Butylbenzene	110	103	93.0	114	6.6	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Tetrachloroethylene	112	107	61.0	141	4.6	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Toluene	100	95	81.0	123	5.1	30
SW8260B	680-160798-1	11/28/18	680-549156	W	Trans-1,2-Dichloroethene	97	93	68.0	128	4.2	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Trans-1,3-Dichloropropene	100	93	85.0	116	7.3	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Trans-1,4-Dichloro-2-Butene	106	100	71.0	134	5.8	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-160798-1	11/28/18	680-549156	W	Trichloroethene	103	97	86.0	117	6.0	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Trichlorofluoromethane	114	111	90.0	110	2.7	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Vinyl Chloride	105	101	81.0	113	3.9	50
SW8260B	680-160798-1	11/28/18	680-549156	W	Vinyl Acetate	105	101	89.0	116	3.9	20
SW8260B	680-160798-1	11/28/18	680-549156	W	Xylenes (Total)	109	102	86.0	117	6.6	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,1,1,2-Tetrachloroethane	102	102	91.0	109	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,1,1-Trichloroethane	99	98	86.0	116	1.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,1,2,2-Tetrachloroethane	104	109	90.0	111	4.7	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	93	96	76.0	126	3.2	30
SW8260B	680-161061-1	11/28/18	680-549305	W	1,1,2-Trichloroethane	101	103	83.0	131	2.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,1-Dichloroethane	103	102	87.0	113	1.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,1-Dichloroethene	97	98	74.0	127	1.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,1-Dichloropropene	102	101	85.0	116	0.99	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,2,3-Trichlorobenzene	136	132	76.0	124	3.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,2,3-Trichloropropane	105	108	70.0	135	2.8	30
SW8260B	680-161061-1	11/28/18	680-549305	W	1,2,4-Trichlorobenzene	116	113	91.0	114	2.6	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,2,4-Trimethylbenzene	102	103	83.0	121	0.98	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,2-Dibromo-3-Chloropropane	117	118	89.0	115	1	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,2-Dibromoethane	102	105	85.0	115	2.9	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,2-Dichlorobenzene	102	103	74.0	126	0.98	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,2-Dichloroethane	97	99	62.0	130	2.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,2-Dichloropropane	103	102	84.0	118	1.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,3,5-Trimethylbenzene	103	103	76.0	123	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,3-Dichlorobenzene	101	99	86.0	119	2.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,3-Dichloropropane	101	102	66.0	135	0.99	20
SW8260B	680-161061-1	11/28/18	680-549305	W	1,4-Dichlorobenzene	99	96	88.0	108	3.1	20
SW8260B	680-161061-1	11/28/18	680-549305	W	2,2-Dichloropropane	103	104	69.0	131	1.0	30
SW8260B	680-161061-1	11/28/18	680-549305	W	2-Butanone (MEK)	86	89	91.0	110	3.4	20
SW8260B	680-161061-1	11/28/18	680-549305	W	2-Chlorotoluene	100	100	89.0	116	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	2-Hexanone	109	112	80.0	121	2.7	20
SW8260B	680-161061-1	11/28/18	680-549305	W	4-Chlorotoluene	100	101	85.0	113	1	20
SW8260B	680-161061-1	11/28/18	680-549305	W	4-Methyl-2-Pentanone (MIBK)	104	107	47.0	155	2.8	40
SW8260B	680-161061-1	11/28/18	680-549305	W	Acetone	93	94	92.0	112	1.1	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/28/18	680-549305	W	Acrylonitrile	101	106	60.0	140	4.8	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Benzene	102	101	88.0	117	1.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Bromobenzene	100	100	93.0	111	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Bromodichloromethane	100	100	87.0	115	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	4-Bromofluorobenzene	96	95	86.0	117	1.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Bromoform	104	106	59.0	140	1.9	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Bromomethane	98	98	87.0	117	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Carbon Disulfide	95	94	87.0	117	1.1	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Carbon Tetrachloride	99	100	91.0	112	1.0	30
SW8260B	680-161061-1	11/28/18	680-549305	W	Chlorobenzene	98	99	91.0	113	1.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Bromochloromethane	101	103	84.0	119	2.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Chloroethane	98	98	90.0	117	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Chloroform	103	101	83.0	121	2.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Chloromethane	87	85	86.0	121	2.3	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Cis-1,2-Dichloroethene	101	100	93.0	113	1	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Cis-1,3-Dichloropropene	102	103	94.0	113	1	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Dibromochloromethane	101	103	87.0	113	2.0	30
SW8260B	680-161061-1	11/28/18	680-549305	W	Dibromomethane	99	101	91.0	114	2.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Dichlorodifluoromethane	65	68	60.0	141	4.5	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Ethylbenzene	101	100	67.0	135	1.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Hexachlorobutadiene	109	106	71.0	128	2.8	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Isopropyl Benzene (Cumene)	101	101	92.0	111	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Mtbe	90	93	84.0	121	3.3	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Methylene Chloride	104	104	80.0	119	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Iodomethane	100	99	83.0	117	1.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	m,p-Xylene	99	99	88.0	116	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Naphthalene	138	136	91.0	111	1.5	20
SW8260B	680-161061-1	11/28/18	680-549305	W	N-Butylbenzene	103	102	76.0	119	1.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	N-Propylbenzene	101	101	93.0	114	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	O-Xylene	101	101	61.0	141	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	P-Isopropyltoluene (Cymene)	101	98	81.0	123	3.0	30
SW8260B	680-161061-1	11/28/18	680-549305	W	Sec-Butylbenzene	100	101	68.0	128	1	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Styrene	104	104	85.0	116	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/28/18	680-549305	W	Tert-Butylbenzene	100	100	71.0	134	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Tetrachloroethylene	99	98	86.0	117	1.0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Toluene	100	100	90.0	110	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Trans-1,2-Dichloroethene	105	103	81.0	113	1.9	50
SW8260B	680-161061-1	11/28/18	680-549305	W	Trans-1,3-Dichloropropene	99	99	89.0	116	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Trans-1,4-Dichloro-2-Butene	99	99	86.0	117	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Trichloroethene	99	99	91.0	109	0	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Trichlorofluoromethane	91	92	86.0	116	1.1	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Vinyl Chloride	91	89	90.0	111	2.2	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Vinyl Acetate	101	105	76.0	126	3.9	20
SW8260B	680-161061-1	11/28/18	680-549305	W	Xylenes (Total)	100	100	83.0	131	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,1,1,2-Tetrachloroethane	114	113	87.0	113	1	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,1,1-Trichloroethane	99	99	74.0	127	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,1,2,2-Tetrachloroethane	108	106	85.0	116	1.9	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	110	108	76.0	124	1.8	30
SW8260B	680-161061-1	11/29/18	680-549348	W	1,1,2-Trichloroethane	96	99	70.0	135	3.1	30
SW8260B	680-161061-1	11/29/18	680-549348	W	1,1-Dichloroethane	94	94	91.0	114	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,1-Dichloroethene	104	101	83.0	121	2.9	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,1-Dichloropropene	103	99	89.0	115	4.0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,2,3-Trichlorobenzene	92	91	85.0	115	1.1	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,2,3-Trichloropropane	112	115	74.0	126	2.6	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,2,4-Trichlorobenzene	94	94	62.0	130	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,2,4-Trimethylbenzene	104	102	84.0	118	1.9	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,2-Dibromo-3-Chloropropane	95	92	76.0	123	3.2	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,2-Dibromoethane	101	106	86.0	119	4.8	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,2-Dichlorobenzene	102	103	66.0	135	1	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,2-Dichloroethane	91	94	88.0	108	3.2	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,2-Dichloropropane	90	93	69.0	131	3.3	30
SW8260B	680-161061-1	11/29/18	680-549348	W	1,3,5-Trimethylbenzene	106	104	91.0	110	1.9	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,3-Dichlorobenzene	109	108	89.0	116	0.92	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,3-Dichloropropane	97	98	80.0	121	1.0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	1,4-Dichlorobenzene	106	103	85.0	113	2.9	20
SW8260B	680-161061-1	11/29/18	680-549348	W	2,2-Dichloropropane	107	105	47.0	155	1.9	40

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/29/18	680-549348	W	2-Butanone (MEK)	86	86	92.0	112	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	2-Chlorotoluene	109	106	60.0	140	2.8	20
SW8260B	680-161061-1	11/29/18	680-549348	W	2-Hexanone	91	93	88.0	117	2.2	20
SW8260B	680-161061-1	11/29/18	680-549348	W	4-Chlorotoluene	108	106	93.0	111	1.9	20
SW8260B	680-161061-1	11/29/18	680-549348	W	4-Methyl-2-Pentanone (MIBK)	93	93	87.0	115	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Acetone	88	93	86.0	117	5.5	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Acrylonitrile	83	88	59.0	140	5.8	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Benzene	95	96	87.0	117	1.0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Bromobenzene	107	107	87.0	117	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Bromodichloromethane	92	93	91.0	112	1.1	30
SW8260B	680-161061-1	11/29/18	680-549348	W	4-Bromofluorobenzene	92	91	91.0	113	1.1	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Bromoform	84	84	84.0	119	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Bromomethane	128	124	90.0	117	3.2	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Carbon Disulfide	97	97	83.0	121	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Carbon Tetrachloride	98	97	86.0	121	1.0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Chlorobenzene	105	105	93.0	113	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Bromochloromethane	93	96	94.0	113	3.2	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Chloroethane	95	95	87.0	113	0	30
SW8260B	680-161061-1	11/29/18	680-549348	W	Chloroform	96	96	91.0	114	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Chloromethane	102	102	60.0	141	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Cis-1,2-Dichloroethene	91	90	67.0	135	1.1	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Cis-1,3-Dichloropropene	91	93	71.0	128	2.2	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Dibromochloromethane	94	94	92.0	111	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Dibromomethane	97	98	84.0	121	1.0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Dichlorodifluoromethane	131	129	80.0	119	1.5	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Ethylbenzene	109	107	83.0	117	1.9	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Hexachlorobutadiene	95	92	88.0	116	3.2	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Isopropyl Benzene (Cumene)	112	109	91.0	111	2.7	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Mtbe	89	95	76.0	119	6.5	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Methylene Chloride	93	98	93.0	114	5.2	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Iodomethane	102	101	61.0	141	1	20
SW8260B	680-161061-1	11/29/18	680-549348	W	m,p-Xylene	108	107	81.0	123	0.93	30
SW8260B	680-161061-1	11/29/18	680-549348	W	Naphthalene	104	105	68.0	128	1.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/29/18	680-549348	W	N-Butylbenzene	104	102	85.0	116	1.9	20
SW8260B	680-161061-1	11/29/18	680-549348	W	N-Propylbenzene	111	108	71.0	134	2.7	20
SW8260B	680-161061-1	11/29/18	680-549348	W	O-Xylene	106	106	86.0	117	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	P-Isopropyltoluene (Cymene)	104	100	90.0	110	3.9	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Sec-Butylbenzene	112	109	81.0	113	2.7	50
SW8260B	680-161061-1	11/29/18	680-549348	W	Styrene	111	111	89.0	116	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Tert-Butylbenzene	110	107	86.0	117	2.8	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Tetrachloroethylene	108	108	91.0	109	0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Toluene	97	96	86.0	116	1.0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Trans-1,2-Dichloroethene	101	94	90.0	111	7.2	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Trans-1,3-Dichloropropene	95	97	76.0	126	2.1	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Trans-1,4-Dichloro-2-Butene	103	104	83.0	131	1.0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Trichloroethene	102	101	87.0	113	1	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Trichlorofluoromethane	113	110	74.0	127	2.7	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Vinyl Chloride	105	104	85.0	116	1.0	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Vinyl Acetate	107	101	76.0	124	5.8	20
SW8260B	680-161061-1	11/29/18	680-549348	W	Xylenes (Total)	107	107	70.0	135	0	30
SW8260B	680-161061-1	11/29/18	680-549346	W	1,1,1,2-Tetrachloroethane	100	100	91.0	114	0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,1,1-Trichloroethane	96	96	83.0	121	0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,1,2,2-Tetrachloroethane	109	110	89.0	115	0.91	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	101	104	85.0	115	2.9	30
SW8260B	680-161061-1	11/29/18	680-549346	W	1,1,2-Trichloroethane	101	102	74.0	126	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,1-Dichloroethane	103	100	62.0	130	3.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,1-Dichloroethene	101	98	84.0	118	3.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,1-Dichloropropene	101	104	76.0	123	2.9	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,2,3-Trichlorobenzene	137	131	86.0	119	4.5	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,2,3-Trichloropropane	103	105	66.0	135	1.9	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,2,4-Trichlorobenzene	116	114	88.0	108	1.7	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,2,4-Trimethylbenzene	103	102	69.0	131	0.98	30
SW8260B	680-161061-1	11/29/18	680-549346	W	1,2-Dibromo-3-Chloropropane	115	114	91.0	110	0.87	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,2-Dibromoethane	101	100	89.0	116	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,2-Dichlorobenzene	102	101	80.0	121	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,2-Dichloroethane	91	95	85.0	113	4.3	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/29/18	680-549346	W	1,2-Dichloropropane	102	104	47.0	155	1.9	40
SW8260B	680-161061-1	11/29/18	680-549346	W	1,3,5-Trimethylbenzene	104	102	92.0	112	1.9	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,3-Dichlorobenzene	101	100	60.0	140	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,3-Dichloropropane	100	101	88.0	117	1	20
SW8260B	680-161061-1	11/29/18	680-549346	W	1,4-Dichlorobenzene	97	98	93.0	111	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	2,2-Dichloropropane	108	110	87.0	115	1.8	20
SW8260B	680-161061-1	11/29/18	680-549346	W	2-Butanone (MEK)	82	95	86.0	117	15	20
SW8260B	680-161061-1	11/29/18	680-549346	W	2-Chlorotoluene	100	99	59.0	140	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	2-Hexanone	109	109	87.0	117	0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	4-Chlorotoluene	101	99	87.0	117	2.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	4-Methyl-2-Pentanone (MIBK)	102	105	91.0	112	2.9	30
SW8260B	680-161061-1	11/29/18	680-549346	W	Acetone	95	98	91.0	113	3.1	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Acrylonitrile	105	106	84.0	119	1	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Benzene	102	102	90.0	117	0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Bromobenzene	99	98	83.0	121	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Bromodichloromethane	97	99	86.0	121	2.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	4-Bromofluorobenzene	96	97	93.0	113	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Bromoform	102	103	94.0	113	0.98	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Bromomethane	100	98	87.0	113	2.0	30
SW8260B	680-161061-1	11/29/18	680-549346	W	Carbon Disulfide	103	99	91.0	114	4.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Carbon Tetrachloride	98	97	60.0	141	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Chlorobenzene	99	99	67.0	135	0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Bromochloromethane	102	101	71.0	128	1	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Chloroethane	105	101	92.0	111	3.9	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Chloroform	100	99	84.0	121	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Chloromethane	106	101	84.0	121	4.8	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Cis-1,2-Dichloroethene	101	98	80.0	119	3.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Cis-1,3-Dichloropropene	104	105	80.0	119	1	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Dibromochloromethane	99	98	83.0	117	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Dibromomethane	96	98	83.0	117	2.1	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Dichlorodifluoromethane	97	94	88.0	116	3.1	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Ethylbenzene	102	101	88.0	116	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Hexachlorobutadiene	112	109	91.0	111	2.7	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/29/18	680-549346	W	Isopropyl Benzene (Cumene)	101	100	91.0	111	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Mtbe	86	99	76.0	119	14	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Methylene Chloride	106	105	76.0	119	0.95	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Iodomethane	102	98	93.0	114	4.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	m,p-Xylene	101	100	93.0	114	1	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Naphthalene	135	130	61.0	141	3.8	20
SW8260B	680-161061-1	11/29/18	680-549346	W	N-Butylbenzene	106	104	61.0	141	1.9	20
SW8260B	680-161061-1	11/29/18	680-549346	W	N-Propylbenzene	103	101	81.0	123	2.0	30
SW8260B	680-161061-1	11/29/18	680-549346	W	O-Xylene	101	101	81.0	123	0	30
SW8260B	680-161061-1	11/29/18	680-549346	W	P-Isopropyltoluene (Cymene)	101	100	68.0	128	1.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Sec-Butylbenzene	103	101	68.0	128	2.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Styrene	105	104	85.0	116	1	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Tert-Butylbenzene	101	99	85.0	116	2.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Tetrachloroethylene	98	94	71.0	134	4.2	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Toluene	101	99	71.0	134	2.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Trans-1,2-Dichloroethene	106	105	86.0	117	0.95	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Trans-1,3-Dichloropropene	97	99	86.0	117	2.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Trans-1,4-Dichloro-2-Butene	98	100	90.0	110	2.0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Trichloroethene	97	97	90.0	110	0	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Trichlorofluoromethane	95	89	81.0	113	6.5	50
SW8260B	680-161061-1	11/29/18	680-549346	W	Vinyl Chloride	107	103	81.0	113	3.8	50
SW8260B	680-161061-1	11/29/18	680-549346	W	Vinyl Acetate	105	125	89.0	116	17	20
SW8260B	680-161061-1	11/29/18	680-549346	W	Xylenes (Total)	101	100	89.0	116	1.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,1,1,2-Tetrachloroethane	106	107	86.0	117	1	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,1,1-Trichloroethane	103	101	86.0	117	2.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,1,2,2-Tetrachloroethane	99	100	91.0	109	1.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	107	101	91.0	109	5.8	30
SW8260B	680-161061-1	11/29/18	680-549349	W	1,1,2-Trichloroethane	98	100	86.0	116	2.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,1-Dichloroethane	99	99	86.0	116	0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,1-Dichloroethene	103	99	90.0	111	4.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,1-Dichloropropene	104	102	90.0	111	1.9	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,2,3-Trichlorobenzene	94	95	76.0	126	1.1	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,2,3-Trichloropropane	101	103	76.0	126	2.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/29/18	680-549349	W	1,2,4-Trichlorobenzene	100	99	83.0	131	1.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,2,4-Trimethylbenzene	105	103	83.0	131	1.9	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,2-Dibromo-3-Chloropropane	96	99	87.0	113	3.1	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,2-Dibromoethane	102	104	87.0	113	1.9	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,2-Dichlorobenzene	100	101	74.0	127	1	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,2-Dichloroethane	105	107	74.0	127	1.9	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,2-Dichloropropane	96	98	85.0	116	2.1	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,3,5-Trimethylbenzene	107	104	85.0	116	2.8	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,3-Dichlorobenzene	104	103	76.0	124	1.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,3-Dichloropropane	99	102	76.0	124	3.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	1,4-Dichlorobenzene	100	100	70.0	135	0	30
SW8260B	680-161061-1	11/29/18	680-549349	W	2,2-Dichloropropane	111	108	70.0	135	2.7	30
SW8260B	680-161061-1	11/29/18	680-549349	W	2-Butanone (MEK)	95	101	91.0	114	6.1	20
SW8260B	680-161061-1	11/29/18	680-549349	W	2-Chlorotoluene	103	101	91.0	114	2.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	2-Hexanone	94	100	83.0	121	6.2	20
SW8260B	680-161061-1	11/29/18	680-549349	W	4-Chlorotoluene	105	105	83.0	121	0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	4-Methyl-2-Pentanone (MIBK)	93	98	89.0	115	5.2	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Acetone	96	102	89.0	115	6.1	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Acrylonitrile	95	99	85.0	115	4.1	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Benzene	101	100	85.0	115	1.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Bromobenzene	111	110	74.0	126	0.90	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Bromodichloromethane	99	102	74.0	126	3.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	4-Bromofluorobenzene	94	93	62.0	130	1.1	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Bromoform	106	109	62.0	130	2.8	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Bromomethane	79	75	84.0	118	5.2	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Carbon Disulfide	108	105	84.0	118	2.8	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Carbon Tetrachloride	110	109	76.0	123	0.91	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Chlorobenzene	106	104	76.0	123	1.9	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Bromochloromethane	105	106	86.0	119	1	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Chloroethane	123	121	86.0	119	1.6	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Chloroform	97	100	66.0	135	3.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Chloromethane	109	107	66.0	135	1.9	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Cis-1,2-Dichloroethene	94	96	88.0	108	2.1	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/29/18	680-549349	W	Cis-1,3-Dichloropropene	97	99	88.0	108	2.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Dibromochloromethane	103	104	69.0	131	1	30
SW8260B	680-161061-1	11/29/18	680-549349	W	Dibromomethane	104	106	69.0	131	1.9	30
SW8260B	680-161061-1	11/29/18	680-549349	W	Dichlorodifluoromethane	121	116	91.0	110	4.2	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Ethylbenzene	108	104	89.0	116	3.8	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Hexachlorobutadiene	104	96	89.0	116	8.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Isopropyl Benzene (Cumene)	107	105	80.0	121	1.9	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Mtbe	98	101	80.0	121	3.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Methylene Chloride	93	97	85.0	113	4.2	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Iodomethane	111	109	85.0	113	1.8	20
SW8260B	680-161061-1	11/29/18	680-549349	W	m,p-Xylene	106	104	47.0	155	1.9	40
SW8260B	680-161061-1	11/29/18	680-549349	W	Naphthalene	93	92	47.0	155	1.1	40
SW8260B	680-161061-1	11/29/18	680-549349	W	N-Butylbenzene	93	91	92.0	112	2.2	20
SW8260B	680-161061-1	11/29/18	680-549349	W	N-Propylbenzene	107	104	92.0	112	2.8	20
SW8260B	680-161061-1	11/29/18	680-549349	W	O-Xylene	105	104	60.0	140	1.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	P-Isopropyltoluene (Cymene)	96	93	60.0	140	3.2	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Sec-Butylbenzene	103	98	88.0	117	5.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Styrene	113	114	88.0	117	0.88	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Tert-Butylbenzene	107	103	93.0	111	3.8	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Tetrachloroethylene	115	113	93.0	111	1.8	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Toluene	102	102	87.0	115	0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Trans-1,2-Dichloroethene	101	99	87.0	115	2.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Trans-1,3-Dichloropropene	103	106	86.0	117	2.9	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Trans-1,4-Dichloro-2-Butene	91	92	86.0	117	1.1	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Trichloroethene	99	94	59.0	140	5.2	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Trichlorofluoromethane	122	116	59.0	140	5.0	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Vinyl Chloride	110	107	87.0	117	2.8	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Vinyl Acetate	105	110	87.0	117	4.7	20
SW8260B	680-161061-1	11/29/18	680-549349	W	Xylenes (Total)	105	104	87.0	117	1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,1,1,2-Tetrachloroethane	108	110	87.0	117	1.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,1,1-Trichloroethane	101	106	91.0	112	4.8	30
SW8260B	680-161061-1	11/29/18	680-549473	W	1,1,2,2-Tetrachloroethane	117	123	91.0	112	5.0	30
SW8260B	680-161061-1	11/29/18	680-549473	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	101	111	91.0	113	9.4	30

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/29/18	680-549473	W	1,1,2-Trichloroethane	111	117	91.0	113	5.3	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,1-Dichloroethane	110	116	84.0	119	5.3	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,1-Dichloroethene	105	112	84.0	119	6.5	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,1-Dichloropropene	106	115	90.0	117	8.1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,2,3-Trichlorobenzene	146	154	83.0	121	5.3	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,2,3-Trichloropropane	116	115	83.0	121	1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,2,4-Trichlorobenzene	125	129	86.0	121	3.1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,2,4-Trimethylbenzene	109	112	86.0	121	2.7	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,2-Dibromo-3-Chloropropane	130	129	93.0	113	1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,2-Dibromoethane	111	116	93.0	113	4.4	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,2-Dichlorobenzene	112	114	94.0	113	1.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,2-Dichloroethane	102	107	94.0	113	4.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,2-Dichloropropane	114	120	87.0	113	5.1	30
SW8260B	680-161061-1	11/29/18	680-549473	W	1,3,5-Trimethylbenzene	109	112	87.0	113	2.7	30
SW8260B	680-161061-1	11/29/18	680-549473	W	1,3-Dichlorobenzene	109	110	91.0	114	1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,3-Dichloropropane	111	116	91.0	114	4.4	20
SW8260B	680-161061-1	11/29/18	680-549473	W	1,4-Dichlorobenzene	107	109	60.0	141	1.9	20
SW8260B	680-161061-1	11/29/18	680-549473	W	2,2-Dichloropropane	104	110	60.0	141	5.6	20
SW8260B	680-161061-1	11/29/18	680-549473	W	2-Butanone (MEK)	96	105	67.0	135	9.0	20
SW8260B	680-161061-1	11/29/18	680-549473	W	2-Chlorotoluene	106	110	67.0	135	3.7	20
SW8260B	680-161061-1	11/29/18	680-549473	W	2-Hexanone	123	130	71.0	128	5.5	20
SW8260B	680-161061-1	11/29/18	680-549473	W	4-Chlorotoluene	108	112	71.0	128	3.6	20
SW8260B	680-161061-1	11/29/18	680-549473	W	4-Methyl-2-Pentanone (MIBK)	117	123	92.0	111	5.0	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Acetone	111	116	92.0	111	4.4	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Acrylonitrile	119	124	84.0	121	4.1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Benzene	109	116	84.0	121	6.2	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Bromobenzene	105	109	84.0	121	3.7	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Bromodichloromethane	106	111	80.0	119	4.6	20
SW8260B	680-161061-1	11/29/18	680-549473	W	4-Bromofluorobenzene	106	108	80.0	119	1.9	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Bromoform	110	112	83.0	117	1.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Bromomethane	108	116	83.0	117	7.1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Carbon Disulfide	107	112	88.0	116	4.6	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Carbon Tetrachloride	98	107	88.0	116	8.8	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/29/18	680-549473	W	Chlorobenzene	106	109	91.0	111	2.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Bromochloromethane	112	119	91.0	111	6.1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Chloroethane	111	118	76.0	119	6.1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Chloroform	107	112	76.0	119	4.6	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Chloromethane	111	118	93.0	114	6.1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Cis-1,2-Dichloroethene	107	112	93.0	114	4.6	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Cis-1,3-Dichloropropene	112	117	61.0	141	4.4	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Dibromochloromethane	107	111	61.0	141	3.7	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Dibromomethane	107	110	81.0	123	2.8	30
SW8260B	680-161061-1	11/29/18	680-549473	W	Dichlorodifluoromethane	96	103	81.0	123	7.0	30
SW8260B	680-161061-1	11/29/18	680-549473	W	Ethylbenzene	108	110	68.0	128	1.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Hexachlorobutadiene	112	116	68.0	128	3.5	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Isopropyl Benzene (Cumene)	106	110	85.0	116	3.7	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Mtbe	98	107	85.0	116	8.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Methylene Chloride	115	121	71.0	134	5.1	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Iodomethane	107	110	71.0	134	2.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	m,p-Xylene	106	109	86.0	117	2.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Naphthalene	147	153	86.0	117	4.0	20
SW8260B	680-161061-1	11/29/18	680-549473	W	N-Butylbenzene	111	114	90.0	110	2.7	20
SW8260B	680-161061-1	11/29/18	680-549473	W	N-Propylbenzene	105	109	90.0	110	3.7	20
SW8260B	680-161061-1	11/29/18	680-549473	W	O-Xylene	108	111	81.0	113	2.7	50
SW8260B	680-161061-1	11/29/18	680-549473	W	P-Isopropyltoluene (Cymene)	107	109	81.0	113	1.9	50
SW8260B	680-161061-1	11/29/18	680-549473	W	Sec-Butylbenzene	106	111	89.0	116	4.6	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Styrene	113	116	89.0	116	2.6	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Tert-Butylbenzene	105	108	86.0	117	2.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Tetrachloroethylene	100	106	86.0	117	5.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Toluene	107	113	91.0	109	5.5	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Trans-1,2-Dichloroethene	111	116	91.0	109	4.4	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Trans-1,3-Dichloropropene	106	110	86.0	116	3.7	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Trans-1,4-Dichloro-2-Butene	107	102	86.0	116	4.8	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Trichloroethene	103	108	90.0	111	4.7	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Trichlorofluoromethane	94	100	90.0	111	6.2	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Vinyl Chloride	111	118	76.0	126	6.1	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/29/18	680-549473	W	Vinyl Acetate	110	120	76.0	126	8.7	20
SW8260B	680-161061-1	11/29/18	680-549473	W	Xylenes (Total)	107	110	83.0	131	2.8	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,1,1,2-Tetrachloroethane	115	107	83.0	131	7.2	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,1,1-Trichloroethane	108	104	87.0	113	3.8	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,1,2,2-Tetrachloroethane	111	99	87.0	113	11	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	109	106	74.0	127	2.8	30
SW8260B	680-161061-1	11/30/18	680-549540	W	1,1,2-Trichloroethane	110	100	74.0	127	9.5	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,1-Dichloroethane	106	100	85.0	116	5.8	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,1-Dichloroethene	105	101	85.0	116	3.9	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,1-Dichloropropene	105	100	76.0	124	4.9	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,2,3-Trichlorobenzene	105	97	76.0	124	7.9	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,2,3-Trichloropropane	114	104	70.0	135	9.2	30
SW8260B	680-161061-1	11/30/18	680-549540	W	1,2,4-Trichlorobenzene	108	98	70.0	135	9.7	30
SW8260B	680-161061-1	11/30/18	680-549540	W	1,2,4-Trimethylbenzene	109	102	91.0	114	6.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,2-Dibromo-3-Chloropropane	113	101	91.0	114	11	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,2-Dibromoethane	115	104	83.0	121	10	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,2-Dichlorobenzene	111	102	83.0	121	8.5	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,2-Dichloroethane	115	106	89.0	115	8.1	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,2-Dichloropropane	108	101	89.0	115	6.7	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,3,5-Trimethylbenzene	111	105	85.0	115	5.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,3-Dichlorobenzene	111	104	85.0	115	6.5	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,3-Dichloropropane	109	102	74.0	126	6.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	1,4-Dichlorobenzene	109	102	74.0	126	6.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	2,2-Dichloropropane	115	111	62.0	130	3.5	20
SW8260B	680-161061-1	11/30/18	680-549540	W	2-Butanone (MEK)	105	98	62.0	130	6.9	20
SW8260B	680-161061-1	11/30/18	680-549540	W	2-Chlorotoluene	109	104	84.0	118	4.7	20
SW8260B	680-161061-1	11/30/18	680-549540	W	2-Hexanone	108	97	84.0	118	11	20
SW8260B	680-161061-1	11/30/18	680-549540	W	4-Chlorotoluene	112	107	76.0	123	4.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	4-Methyl-2-Pentanone (MIBK)	105	94	76.0	123	11	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Acetone	106	97	86.0	119	8.9	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Acrylonitrile	108	96	86.0	119	12	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Benzene	106	101	66.0	135	4.8	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Bromobenzene	123	116	66.0	135	5.9	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/30/18	680-549540	W	Bromodichloromethane	110	104	88.0	108	5.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	4-Bromofluorobenzene	98	91	88.0	108	7.4	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Bromoform	122	112	69.0	131	8.5	30
SW8260B	680-161061-1	11/30/18	680-549540	W	Bromomethane	68	74	69.0	131	8.5	30
SW8260B	680-161061-1	11/30/18	680-549540	W	Carbon Disulfide	108	104	91.0	110	3.8	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Carbon Tetrachloride	112	109	91.0	110	2.7	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Chlorobenzene	113	109	89.0	116	3.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Bromochloromethane	115	108	89.0	116	6.3	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Chloroethane	121	124	80.0	121	2.4	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Chloroform	107	99	80.0	121	7.8	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Chloromethane	108	104	85.0	113	3.8	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Cis-1,2-Dichloroethene	104	94	85.0	113	10	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Cis-1,3-Dichloropropene	110	103	47.0	155	6.6	40
SW8260B	680-161061-1	11/30/18	680-549540	W	Dibromochloromethane	115	107	47.0	155	7.2	40
SW8260B	680-161061-1	11/30/18	680-549540	W	Dibromomethane	113	106	92.0	112	6.4	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Dichlorodifluoromethane	102	102	92.0	112	0	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Ethylbenzene	111	106	60.0	140	4.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Hexachlorobutadiene	104	101	60.0	140	2.9	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Isopropyl Benzene (Cumene)	111	107	88.0	117	3.7	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Mtbe	112	100	88.0	117	11	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Methylene Chloride	100	97	93.0	111	3.0	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Iodomethane	115	111	93.0	111	3.5	20
SW8260B	680-161061-1	11/30/18	680-549540	W	m,p-Xylene	110	104	87.0	115	5.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Naphthalene	118	110	87.0	115	7.0	20
SW8260B	680-161061-1	11/30/18	680-549540	W	N-Butylbenzene	92	87	86.0	117	5.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	N-Propylbenzene	109	104	86.0	117	4.7	20
SW8260B	680-161061-1	11/30/18	680-549540	W	O-Xylene	110	104	59.0	140	5.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	P-Isopropyltoluene (Cymene)	99	94	59.0	140	5.2	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Sec-Butylbenzene	102	101	87.0	117	1.0	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Styrene	116	108	87.0	117	7.1	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Tert-Butylbenzene	109	106	87.0	117	2.8	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Tetrachloroethylene	119	118	87.0	117	0.84	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Toluene	110	105	91.0	112	4.7	30

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161061-1	11/30/18	680-549540	W	Trans-1,2-Dichloroethene	111	105	91.0	112	5.6	30
SW8260B	680-161061-1	11/30/18	680-549540	W	Trans-1,3-Dichloropropene	112	104	91.0	113	7.4	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Trans-1,4-Dichloro-2-Butene	101	87	91.0	113	15	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Trichloroethene	102	98	84.0	119	4.0	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Trichlorofluoromethane	112	115	84.0	119	2.6	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Vinyl Chloride	105	103	90.0	117	1.9	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Vinyl Acetate	110	98	90.0	117	12	20
SW8260B	680-161061-1	11/30/18	680-549540	W	Xylenes (Total)	110	104	83.0	121	5.6	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,1,1,2-Tetrachloroethane	115	115	83.0	121	0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,1,1-Trichloroethane	101	102	86.0	121	1.0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,1,2,2-Tetrachloroethane	103	105	86.0	121	1.9	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	112	109	93.0	113	2.7	30
SW8260B	680-161411-1	12/4/18	680-549967	W	1,1,2-Trichloroethane	98	100	93.0	113	2.0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,1-Dichloroethane	94	94	94.0	113	0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,1-Dichloroethene	106	104	94.0	113	1.9	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,1-Dichloropropene	99	100	87.0	113	1.0	30
SW8260B	680-161411-1	12/4/18	680-549967	W	1,2,3-Trichlorobenzene	93	94	87.0	113	1.1	30
SW8260B	680-161411-1	12/4/18	680-549967	W	1,2,3-Trichloropropane	113	114	91.0	114	0.88	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,2,4-Trichlorobenzene	93	94	91.0	114	1.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,2,4-Trimethylbenzene	104	103	60.0	141	1.0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,2-Dibromo-3-Chloropropane	94	96	60.0	141	2.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,2-Dibromoethane	102	105	67.0	135	2.9	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,2-Dichlorobenzene	103	104	67.0	135	1.0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,2-Dichloroethane	92	94	71.0	128	2.2	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,2-Dichloropropane	94	96	71.0	128	2.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,3,5-Trimethylbenzene	108	106	92.0	111	1.9	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,3-Dichlorobenzene	108	109	92.0	111	0.92	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,3-Dichloropropane	96	99	80.0	119	3.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	1,4-Dichlorobenzene	104	106	83.0	117	1.9	20
SW8260B	680-161411-1	12/4/18	680-549967	W	2,2-Dichloropropane	107	109	88.0	116	1.9	20
SW8260B	680-161411-1	12/4/18	680-549967	W	2-Butanone (MEK)	82	91	91.0	111	10	20
SW8260B	680-161411-1	12/4/18	680-549967	W	2-Chlorotoluene	110	110	76.0	119	0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	2-Hexanone	89	92	93.0	114	3.3	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161411-1	12/4/18	680-549967	W	4-Chlorotoluene	109	110	61.0	141	0.91	20
SW8260B	680-161411-1	12/4/18	680-549967	W	4-Methyl-2-Pentanone (MIBK)	90	93	81.0	123	3.3	30
SW8260B	680-161411-1	12/4/18	680-549967	W	Acetone	88	93	68.0	128	5.5	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Acrylonitrile	86	87	85.0	116	1.2	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Benzene	95	98	71.0	134	3.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Bromobenzene	107	109	86.0	117	1.9	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Bromodichloromethane	91	94	90.0	110	3.2	20
SW8260B	680-161411-1	12/4/18	680-549967	W	4-Bromofluorobenzene	90	90	81.0	113	0	50
SW8260B	680-161411-1	12/4/18	680-549967	W	Bromoform	85	86	89.0	116	1.2	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Bromomethane	115	115	86.0	117	0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Carbon Disulfide	98	98	91.0	109	0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Carbon Tetrachloride	100	98	86.0	116	2.0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Chlorobenzene	106	108	90.0	111	1.9	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Bromochloromethane	94	98	76.0	126	4.2	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Chloroethane	93	97	83.0	131	4.2	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Chloroform	95	99	87.0	113	4.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Chloromethane	93	93	74.0	127	0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Cis-1,2-Dichloroethene	91	92	85.0	116	1.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Cis-1,3-Dichloropropene	94	97	76.0	124	3.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Dibromochloromethane	96	97	70.0	135	1.0	30
SW8260B	680-161411-1	12/4/18	680-549967	W	Dibromomethane	97	99	91.0	114	2.0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Dichlorodifluoromethane	106	105	83.0	121	0.95	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Ethylbenzene	109	109	89.0	115	0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Hexachlorobutadiene	96	94	85.0	115	2.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Isopropyl Benzene (Cumene)	111	111	74.0	126	0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Mtbe	94	95	62.0	130	1.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Methylene Chloride	93	100	84.0	118	7.3	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Iodomethane	102	102	76.0	123	0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	m,p-Xylene	109	107	86.0	119	1.9	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Naphthalene	105	105	66.0	135	0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	N-Butylbenzene	103	100	88.0	108	3.0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	N-Propylbenzene	111	110	69.0	131	0.90	30
SW8260B	680-161411-1	12/4/18	680-549967	W	O-Xylene	107	107	91.0	110	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161411-1	12/4/18	680-549967	W	P-Isopropyltoluene (Cymene)	105	103	89.0	116	1.9	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Sec-Butylbenzene	112	109	80.0	121	2.7	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Styrene	104	107	85.0	113	2.8	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Tert-Butylbenzene	110	108	47.0	155	1.8	40
SW8260B	680-161411-1	12/4/18	680-549967	W	Tetrachloroethylene	112	109	92.0	112	2.7	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Toluene	100	98	60.0	140	2.0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Trans-1,2-Dichloroethene	100	104	88.0	117	3.9	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Trans-1,3-Dichloropropene	93	95	93.0	111	2.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Trans-1,4-Dichloro-2-Butene	96	101	87.0	115	5.1	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Trichloroethene	101	102	86.0	117	1.0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Trichlorofluoromethane	108	108	59.0	140	0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Vinyl Chloride	97	96	87.0	117	1.0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Vinyl Acetate	99	101	87.0	117	2.0	20
SW8260B	680-161411-1	12/4/18	680-549967	W	Xylenes (Total)	108	107	91.0	112	0.93	30
SW8260B	680-161411-1	12/4/18	680-550000	W	1,1,1,2-Tetrachloroethane	106	105	91.0	113	0.95	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,1,1-Trichloroethane	107	106	84.0	119	0.94	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,1,2,2-Tetrachloroethane	96	94	90.0	117	2.1	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	118	116	83.0	121	1.7	30
SW8260B	680-161411-1	12/4/18	680-550000	W	1,1,2-Trichloroethane	99	98	86.0	121	1.0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,1-Dichloroethane	108	106	93.0	113	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,1-Dichloroethene	110	105	94.0	113	4.7	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,1-Dichloropropene	111	110	87.0	113	0.90	30
SW8260B	680-161411-1	12/4/18	680-550000	W	1,2,3-Trichlorobenzene	103	101	91.0	114	2.0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,2,3-Trichloropropane	97	96	60.0	141	1.0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,2,4-Trichlorobenzene	106	102	67.0	135	3.8	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,2,4-Trimethylbenzene	105	103	71.0	128	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,2-Dibromo-3-Chloropropane	95	97	92.0	111	2.1	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,2-Dibromoethane	104	103	84.0	121	1	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,2-Dichlorobenzene	104	103	84.0	121	1.0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,2-Dichloroethane	105	105	80.0	119	0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,2-Dichloropropane	107	107	80.0	119	0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,3,5-Trimethylbenzene	105	102	83.0	117	2.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,3-Dichlorobenzene	106	103	83.0	117	2.9	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161411-1	12/4/18	680-550000	W	1,3-Dichloropropane	104	103	88.0	116	1.0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	1,4-Dichlorobenzene	105	101	88.0	116	3.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	2,2-Dichloropropane	107	105	91.0	111	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	2-Butanone (MEK)	99	99	91.0	111	0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	2-Chlorotoluene	106	105	76.0	119	0.95	20
SW8260B	680-161411-1	12/4/18	680-550000	W	2-Hexanone	97	95	76.0	119	2.1	20
SW8260B	680-161411-1	12/4/18	680-550000	W	4-Chlorotoluene	105	103	93.0	114	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	4-Methyl-2-Pentanone (MIBK)	100	101	93.0	114	1.0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Acetone	92	94	61.0	141	2.2	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Acrylonitrile	98	101	61.0	141	3.0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Benzene	107	105	81.0	123	1.9	30
SW8260B	680-161411-1	12/4/18	680-550000	W	Bromobenzene	105	103	81.0	123	1.9	30
SW8260B	680-161411-1	12/4/18	680-550000	W	Bromodichloromethane	103	102	68.0	128	1.0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	4-Bromofluorobenzene	101	98	68.0	128	3.0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Bromoform	102	104	85.0	116	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Bromomethane	104	101	85.0	116	2.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Carbon Disulfide	112	111	71.0	134	0.90	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Carbon Tetrachloride	111	108	71.0	134	2.7	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Chlorobenzene	105	103	86.0	117	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Bromochloromethane	105	110	86.0	117	4.7	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Chloroethane	100	95	90.0	110	5.1	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Chloroform	104	102	90.0	110	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Chloromethane	106	103	81.0	113	2.9	50
SW8260B	680-161411-1	12/4/18	680-550000	W	Cis-1,2-Dichloroethene	104	105	81.0	113	1.0	50
SW8260B	680-161411-1	12/4/18	680-550000	W	Cis-1,3-Dichloropropene	107	108	89.0	116	0.93	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Dibromochloromethane	102	102	89.0	116	0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Dibromomethane	102	104	86.0	117	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Dichlorodifluoromethane	115	111	86.0	117	3.5	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Ethylbenzene	107	104	91.0	109	2.8	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Hexachlorobutadiene	109	106	91.0	109	2.8	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Isopropyl Benzene (Cumene)	107	106	86.0	116	0.94	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Mtbe	102	102	86.0	116	0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Methylene Chloride	102	103	90.0	111	1.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161411-1	12/4/18	680-550000	W	Iodomethane	109	111	90.0	111	1.8	20
SW8260B	680-161411-1	12/4/18	680-550000	W	m,p-Xylene	106	104	76.0	126	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Naphthalene	100	99	76.0	126	1.0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	N-Butylbenzene	110	107	83.0	131	2.8	20
SW8260B	680-161411-1	12/4/18	680-550000	W	N-Propylbenzene	106	104	83.0	131	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	O-Xylene	105	103	87.0	113	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	P-Isopropyltoluene (Cymene)	108	105	87.0	113	2.8	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Sec-Butylbenzene	108	106	74.0	127	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Styrene	105	103	74.0	127	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Tert-Butylbenzene	108	106	85.0	116	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Tetrachloroethylene	111	109	85.0	116	1.8	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Toluene	108	106	76.0	124	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Trans-1,2-Dichloroethene	106	105	76.0	124	0.95	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Trans-1,3-Dichloropropene	105	106	70.0	135	0.95	30
SW8260B	680-161411-1	12/4/18	680-550000	W	Trans-1,4-Dichloro-2-Butene	95	95	70.0	135	0	30
SW8260B	680-161411-1	12/4/18	680-550000	W	Trichloroethene	109	107	91.0	114	1.9	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Trichlorofluoromethane	118	114	91.0	114	3.4	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Vinyl Chloride	113	109	83.0	121	3.6	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Vinyl Acetate	108	108	83.0	121	0	20
SW8260B	680-161411-1	12/4/18	680-550000	W	Xylenes (Total)	106	104	89.0	115	1.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,1,1,2-Tetrachloroethane	112	105	89.0	115	6.5	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,1,1-Trichloroethane	104	102	85.0	115	1.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,1,2,2-Tetrachloroethane	102	102	85.0	115	0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	102	111	74.0	126	8.5	30
SW8260B	680-161411-1	12/5/18	680-550148	W	1,1,2-Trichloroethane	103	101	74.0	126	2.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,1-Dichloroethane	100	99	62.0	130	1.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,1-Dichloroethene	100	103	62.0	130	3.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,1-Dichloropropene	102	103	84.0	118	1.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,2,3-Trichlorobenzene	100	95	84.0	118	5.1	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,2,3-Trichloropropane	108	107	76.0	123	0.93	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,2,4-Trichlorobenzene	100	97	76.0	123	3.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,2,4-Trimethylbenzene	103	100	86.0	119	3.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,2-Dibromo-3-Chloropropane	106	107	86.0	119	0.94	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161411-1	12/5/18	680-550148	W	1,2-Dibromoethane	108	104	66.0	135	3.8	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,2-Dichlorobenzene	104	100	66.0	135	3.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,2-Dichloroethane	108	105	88.0	108	2.8	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,2-Dichloropropane	104	97	88.0	108	7.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,3,5-Trimethylbenzene	107	101	69.0	131	5.8	30
SW8260B	680-161411-1	12/5/18	680-550148	W	1,3-Dichlorobenzene	106	102	69.0	131	3.8	30
SW8260B	680-161411-1	12/5/18	680-550148	W	1,3-Dichloropropane	104	99	91.0	110	4.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	1,4-Dichlorobenzene	104	99	91.0	110	4.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	2,2-Dichloropropane	106	107	89.0	116	0.94	20
SW8260B	680-161411-1	12/5/18	680-550148	W	2-Butanone (MEK)	102	105	89.0	116	2.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	2-Chlorotoluene	103	100	80.0	121	3.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	2-Hexanone	103	104	80.0	121	1.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	4-Chlorotoluene	107	102	85.0	113	4.8	20
SW8260B	680-161411-1	12/5/18	680-550148	W	4-Methyl-2-Pentanone (MIBK)	99	100	85.0	113	1.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Acetone	103	107	47.0	155	3.8	40
SW8260B	680-161411-1	12/5/18	680-550148	W	Acrylonitrile	103	104	47.0	155	1.0	40
SW8260B	680-161411-1	12/5/18	680-550148	W	Benzene	102	99	92.0	112	3.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Bromobenzene	115	111	92.0	112	3.5	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Bromodichloromethane	104	99	60.0	140	4.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	4-Bromofluorobenzene	95	90	60.0	140	5.4	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Bromoform	114	111	88.0	117	2.7	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Bromomethane	75	72	88.0	117	4.1	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Carbon Disulfide	104	106	93.0	111	1.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Carbon Tetrachloride	107	110	93.0	111	2.8	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Chlorobenzene	108	104	87.0	115	3.8	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Bromochloromethane	110	106	87.0	115	3.7	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Chloroethane	112	115	86.0	117	2.6	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Chloroform	101	99	86.0	117	2.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Chloromethane	98	100	59.0	140	2.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Cis-1,2-Dichloroethene	95	93	59.0	140	2.1	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Cis-1,3-Dichloropropene	104	100	87.0	117	3.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Dibromochloromethane	109	104	87.0	117	4.7	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Dibromomethane	109	104	87.0	117	4.7	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-161411-1	12/5/18	680-550148	W	Dichlorodifluoromethane	89	98	87.0	117	9.6	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Ethylbenzene	106	104	91.0	112	1.9	30
SW8260B	680-161411-1	12/5/18	680-550148	W	Hexachlorobutadiene	99	96	91.0	112	3.1	30
SW8260B	680-161411-1	12/5/18	680-550148	W	Isopropyl Benzene (Cumene)	107	105	91.0	113	1.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Mtbe	103	100	91.0	113	3.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Methylene Chloride	97	92	84.0	119	5.3	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Iodomethane	109	106	84.0	119	2.8	20
SW8260B	680-161411-1	12/5/18	680-550148	W	m,p-Xylene	106	102	90.0	117	3.8	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Naphthalene	96	93	90.0	117	3.2	20
SW8260B	680-161411-1	12/5/18	680-550148	W	N-Butylbenzene	88	88	83.0	121	0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	N-Propylbenzene	106	102	83.0	121	3.8	20
SW8260B	680-161411-1	12/5/18	680-550148	W	O-Xylene	105	102	86.0	121	2.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	P-Isopropyltoluene (Cymene)	93	94	86.0	121	1.1	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Sec-Butylbenzene	99	99	93.0	113	0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Styrene	111	106	93.0	113	4.6	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Tert-Butylbenzene	105	103	94.0	113	1.9	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Tetrachloroethylene	113	113	94.0	113	0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Toluene	104	103	87.0	113	1.0	30
SW8260B	680-161411-1	12/5/18	680-550148	W	Trans-1,2-Dichloroethene	106	101	87.0	113	4.8	30
SW8260B	680-161411-1	12/5/18	680-550148	W	Trans-1,3-Dichloropropene	106	102	91.0	114	3.8	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Trans-1,4-Dichloro-2-Butene	101	101	91.0	114	0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Trichloroethene	98	94	60.0	141	4.2	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Trichlorofluoromethane	112	118	60.0	141	5.2	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Vinyl Chloride	103	104	67.0	135	1.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Vinyl Acetate	96	95	67.0	135	1.0	20
SW8260B	680-161411-1	12/5/18	680-550148	W	Xylenes (Total)	106	102	71.0	128	3.8	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,1,1,2-Tetrachloroethane	104	102	71.0	128	1.9	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,1,1-Trichloroethane	103	101	92.0	111	2.0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,1,2,2-Tetrachloroethane	104	101	92.0	111	2.9	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	112	105	80.0	120	6.5	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,1,2-Trichloroethane	97	96	80.0	120	1.0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,1-Dichloroethane	96	94	80.0	120	2.1	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,1-Dichloroethene	104	101	80.0	120	2.9	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168929-1	5/23/19	680-571502	W	1,1-Dichloropropene	98	94	80.0	120	4.2	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,2,3-Trichlorobenzene	106	108	80.0	120	1.9	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,2,3-Trichloropropane	104	101	80.0	120	2.9	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,2,4-Trichlorobenzene	107	107	80.0	120	0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,2,4-Trimethylbenzene	106	104	80.0	120	1.9	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,2-Dibromo-3-Chloropropane	96	95	80.0	120	1.0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,2-Dibromoethane	99	98	80.0	120	1.0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,2-Dichlorobenzene	94	91	80.0	120	3.2	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,2-Dichloroethane	97	100	80.0	120	3.0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,2-Dichloropropane	97	95	80.0	120	2.1	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,3,5-Trimethylbenzene	107	103	80.0	120	3.8	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,3-Dichlorobenzene	96	95	80.0	120	1.0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,3-Dichloropropane	93	93	80.0	120	0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	1,4-Dichlorobenzene	95	93	80.0	120	2.1	20
SW8260B	680-168929-1	5/23/19	680-571502	W	2,2-Dichloropropane	117	113	80.0	120	3.5	20
SW8260B	680-168929-1	5/23/19	680-571502	W	2-Butanone (MEK)	87	88	80.0	120	1.1	20
SW8260B	680-168929-1	5/23/19	680-571502	W	2-Chlorotoluene	104	98	80.0	120	5.9	20
SW8260B	680-168929-1	5/23/19	680-571502	W	2-Hexanone	88	90	80.0	120	2.2	20
SW8260B	680-168929-1	5/23/19	680-571502	W	4-Chlorotoluene	106	101	80.0	120	4.8	20
SW8260B	680-168929-1	5/23/19	680-571502	W	4-Methyl-2-Pentanone (MIBK)	89	89	80.0	120	0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Acetone	81	83	80.0	120	2.4	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Acrylonitrile	86	87	80.0	120	1.2	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Benzene	94	93	80.0	120	1.1	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Bromobenzene	110	103	80.0	120	6.6	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Bromodichloromethane	103	100	80.0	120	3.0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	4-Bromofluorobenzene	89	89	80.0	120	0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Bromoform	112	107	80.0	120	4.6	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Bromomethane	62	59	80.0	120	5.0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Carbon Disulfide	96	92	80.0	120	4.3	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Carbon Tetrachloride	104	101	80.0	120	2.9	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Chlorobenzene	99	98	80.0	120	1.0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Bromochloromethane	99	97	80.0	120	2.0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Chloroethane	77	75	80.0	120	2.6	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168929-1	5/23/19	680-571502	W	Chloroform	98	98	80.0	120	0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Chloromethane	82	80	80.0	120	2.5	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Cis-1,2-Dichloroethene	98	94	80.0	120	4.2	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Cis-1,3-Dichloropropene	99	99	80.0	120	0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Dibromochloromethane	103	102	80.0	120	1	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Dibromomethane	101	99	80.0	120	2.0	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Dichlorodifluoromethane	88	84	90.0	110	4.7	15
SW8260B	680-168929-1	5/23/19	680-571502	W	Ethylbenzene	103	98	90.0	110	5.0	15
SW8260B	680-168929-1	5/23/19	680-571502	W	Hexachlorobutadiene	123	121	90.0	110	1.6	15
SW8260B	680-168929-1	5/23/19	680-571502	W	Isopropyl Benzene (Cumene)	107	101	90.0	110	5.8	15
SW8260B	680-168929-1	5/23/19	680-571502	W	Mtbe	96	95	90.0	110	1.0	15
SW8260B	680-168929-1	5/23/19	680-571502	W	Methylene Chloride	91	90	90.0	110	1.1	15
SW8260B	680-168929-1	5/23/19	680-571502	W	Iodomethane	51	33	90.0	110	43	15
SW8260B	680-168929-1	5/23/19	680-571502	W	m,p-Xylene	102	97	90.0	110	5.0	15
SW8260B	680-168929-1	5/23/19	680-571502	W	Naphthalene	96	96	90.0	110	0	15
SW8260B	680-168929-1	5/23/19	680-571502	W	N-Butylbenzene	103	100	90.0	110	3.0	15
SW8260B	680-168929-1	5/23/19	680-571502	W	N-Propylbenzene	108	101	90.0	110	6.7	15
SW8260B	680-168929-1	5/23/19	680-571502	W	O-Xylene	101	99	90.0	110	2.0	15
SW8260B	680-168929-1	5/23/19	680-571502	W	P-Isopropyltoluene (Cymene)	100	101	80.0	120	1	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Sec-Butylbenzene	110	104	80.0	120	5.6	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Styrene	104	102	80.0	120	1.9	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Tert-Butylbenzene	107	102	80.0	120	4.8	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Tetrachloroethylene	107	103	80.0	120	3.8	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Toluene	97	94	80.0	120	3.1	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Trans-1,2-Dichloroethene	104	101	80.0	120	2.9	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Trans-1,3-Dichloropropene	95	93	80.0	120	2.1	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Trans-1,4-Dichloro-2-Butene	108	105	80.0	120	2.8	20
SW8260B	680-168929-1	5/23/19	680-571502	W	Trichloroethene	103	100	80.0	120	3.0	25
SW8260B	680-168929-1	5/23/19	680-571502	W	Trichlorofluoromethane	104	98	80.0	120	5.9	25
SW8260B	680-168929-1	5/23/19	680-571502	W	Vinyl Chloride	94	91	80.0	120	3.2	25
SW8260B	680-168929-1	5/23/19	680-571502	W	Vinyl Acetate	126	126	80.0	120	0	25
SW8260B	680-168929-1	5/23/19	680-571502	W	Xylenes (Total)	102	98	80.0	120	4.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,1,1,2-Tetrachloroethane	103	104	54.0	154	0.97	25

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168929-1	5/23/19	680-571504	W	1,1,1-Trichloroethane	103	104	79.0	136	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,1,2,2-Tetrachloroethane	97	101	80.0	133	4.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	100	100	75.0	125	0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,1,2-Trichloroethane	103	106	76.0	135	2.9	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,1-Dichloroethane	99	100	75.0	133	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,1-Dichloroethene	103	103	65.0	139	0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,1-Dichloropropene	99	99	80.0	130	0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,2,3-Trichlorobenzene	96	99	76.0	123	3.1	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,2,3-Trichloropropane	103	108	75.0	132	4.7	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,2,4-Trichlorobenzene	95	99	80.0	127	4.1	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,2,4-Trimethylbenzene	97	99	73.0	120	2.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,2-Dibromo-3-Chloropropane	107	109	67.0	132	1.9	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,2-Dibromoethane	102	106	77.0	127	3.8	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,2-Dichlorobenzene	94	96	78.0	121	2.1	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,2-Dichloroethane	100	105	75.0	122	4.9	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,2-Dichloropropane	96	99	80.0	133	3.1	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,3,5-Trimethylbenzene	98	99	74.0	123	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,3-Dichlorobenzene	95	96	62.0	134	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,3-Dichloropropane	100	103	45.0	150	3.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	1,4-Dichlorobenzene	95	98	45.0	150	3.1	25
SW8260B	680-168929-1	5/23/19	680-571504	W	2,2-Dichloropropane	106	109	79.0	121	2.8	25
SW8260B	680-168929-1	5/23/19	680-571504	W	2-Butanone (MEK)	111	108	73.0	127	2.7	25
SW8260B	680-168929-1	5/23/19	680-571504	W	2-Chlorotoluene	98	99	59.0	150	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	2-Hexanone	104	106	51.0	157	1.9	25
SW8260B	680-168929-1	5/23/19	680-571504	W	4-Chlorotoluene	99	98	50.0	150	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	4-Methyl-2-Pentanone (MIBK)	104	108	79.0	126	3.8	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Acetone	99	105	74.0	123	5.9	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Acrylonitrile	96	99	78.0	127	3.1	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Benzene	99	100	70.0	130	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Bromobenzene	100	100	72.0	136	0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Bromodichloromethane	103	106	35.0	153	2.9	25
SW8260B	680-168929-1	5/23/19	680-571504	W	4-Bromofluorobenzene	89	93	74.0	123	4.4	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Bromoform	106	106	71.0	132	0	25

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168929-1	5/23/19	680-571504	W	Bromomethane	83	76	80.0	127	8.8	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Carbon Disulfide	100	99	72.0	129	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Carbon Tetrachloride	103	107	74.0	127	3.8	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Chlorobenzene	97	99	58.0	135	2.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Bromochloromethane	99	101	73.0	133	2.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Chloroethane	94	98	73.0	132	4.2	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Chloroform	103	104	74.0	145	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Chloromethane	95	94	76.0	132	1.1	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Cis-1,2-Dichloroethene	101	101	59.0	134	0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Cis-1,3-Dichloropropene	103	107	79.0	120	3.8	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Dibromochloromethane	106	109	78.0	133	2.8	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Dibromomethane	103	105	70.0	130	1.9	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Dichlorodifluoromethane	88	92	77.0	126	4.4	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Ethylbenzene	99	97	69.0	118	2.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Hexachlorobutadiene	95	96	59.0	129	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Isopropyl Benzene (Cumene)	100	98	65.0	149	2.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Mtbe	101	106	78.0	126	4.8	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Methylene Chloride	98	97	75.0	127	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Iodomethane	94	94	78.0	125	0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	m,p-Xylene	97	97	78.0	125	0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Naphthalene	99	104	76.0	130	4.9	25
SW8260B	680-168929-1	5/23/19	680-571504	W	N-Butylbenzene	94	97	76.0	125	3.1	25
SW8260B	680-168929-1	5/23/19	680-571504	W	N-Propylbenzene	98	98	80.0	129	0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	O-Xylene	97	97	80.0	125	0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	P-Isopropyltoluene (Cymene)	95	97	78.0	134	2.1	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Sec-Butylbenzene	99	98	74.0	131	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Styrene	101	99	50.0	150	2.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Tert-Butylbenzene	99	99	67.0	128	0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Tetrachloroethylene	102	104	68.0	133	1.9	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Toluene	102	103	36.0	176	1.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Trans-1,2-Dichloroethene	102	100	73.0	134	2.0	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Trans-1,3-Dichloropropene	104	107	79.0	122	2.8	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Trans-1,4-Dichloro-2-Butene	108	109	70.0	130	1	25

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168929-1	5/23/19	680-571504	W	Trichloroethene	103	102	70.0	127	1	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Trichlorofluoromethane	101	102	68.0	129	1	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Vinyl Chloride	96	93	54.0	154	3.2	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Vinyl Acetate	100	105	79.0	136	4.9	25
SW8260B	680-168929-1	5/23/19	680-571504	W	Xylenes (Total)	97	97	80.0	133	0	25
SW8260B	680-168929-1	5/24/19	680-571698	W	1,1,1,2-Tetrachloroethane	104	100	54.0	154	3.9	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,1,1-Trichloroethane	102	101	79.0	136	1.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,1,2,2-Tetrachloroethane	101	93	80.0	133	8.2	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,1,2-Trichloro-1,2,2-Trifluoroethane	112	109	75.0	125	2.7	30
SW8260B	680-168929-1	5/24/19	680-571698	W	1,1,2-Trichloroethane	95	97	76.0	135	2.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,1-Dichloroethane	95	92	75.0	133	3.2	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,1-Dichloroethene	97	94	65.0	139	3.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,1-Dichloropropene	98	97	80.0	130	1.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,2,3-Trichlorobenzene	106	100	76.0	123	5.8	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,2,3-Trichloropropane	101	95	75.0	132	6.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,2,4-Trichlorobenzene	106	102	80.0	127	3.8	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,2,4-Trimethylbenzene	107	101	73.0	120	5.8	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,2-Dibromo-3-Chloropropane	93	88	67.0	132	5.5	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,2-Dibromoethane	98	100	77.0	127	2.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,2-Dichlorobenzene	95	90	78.0	121	5.4	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,2-Dichloroethane	101	101	75.0	122	0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,2-Dichloropropane	92	91	80.0	133	1.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,3,5-Trimethylbenzene	106	100	74.0	123	5.8	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,3-Dichlorobenzene	95	92	62.0	134	3.2	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,3-Dichloropropane	93	95	45.0	150	2.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	1,4-Dichlorobenzene	93	90	45.0	150	3.3	20
SW8260B	680-168929-1	5/24/19	680-571698	W	2,2-Dichloropropane	116	115	79.0	121	0.87	20
SW8260B	680-168929-1	5/24/19	680-571698	W	2-Butanone (MEK)	87	82	73.0	127	5.9	20
SW8260B	680-168929-1	5/24/19	680-571698	W	2-Chlorotoluene	102	96	59.0	150	6.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	2-Hexanone	82	83	51.0	157	1.2	20
SW8260B	680-168929-1	5/24/19	680-571698	W	4-Chlorotoluene	103	98	50.0	150	5.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	4-Methyl-2-Pentanone (MIBK)	82	82	79.0	126	0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Acetone	78	76	74.0	123	2.6	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168929-1	5/24/19	680-571698	W	Acrylonitrile	84	80	78.0	127	4.9	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Benzene	94	92	70.0	130	2.2	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Bromobenzene	108	102	72.0	136	5.7	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Bromodichloromethane	99	100	35.0	153	1.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	4-Bromofluorobenzene	85	86	74.0	123	1.2	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Bromoform	108	104	71.0	132	3.8	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Bromomethane	73	68	80.0	127	7.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Carbon Disulfide	94	92	72.0	129	2.2	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Carbon Tetrachloride	107	105	74.0	127	1.9	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Chlorobenzene	99	97	58.0	135	2.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Bromochloromethane	106	101	73.0	133	4.8	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Chloroethane	73	73	73.0	132	0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Chloroform	100	99	74.0	145	1.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Chloromethane	80	78	76.0	132	2.5	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Cis-1,2-Dichloroethene	94	92	59.0	134	2.2	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Cis-1,3-Dichloropropene	99	100	79.0	120	1.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Dibromochloromethane	102	103	78.0	133	1.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Dibromomethane	98	97	70.0	130	1.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Dichlorodifluoromethane	105	105	77.0	126	0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Ethylbenzene	99	95	69.0	118	4.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Hexachlorobutadiene	122	117	59.0	129	4.2	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Isopropyl Benzene (Cumene)	102	96	65.0	149	6.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Mtbe	98	93	78.0	126	5.2	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Methylene Chloride	92	89	75.0	127	3.3	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Iodomethane	71	68	78.0	125	4.3	20
SW8260B	680-168929-1	5/24/19	680-571698	W	m,p-Xylene	100	98	78.0	125	2.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Naphthalene	94	87	76.0	130	7.7	20
SW8260B	680-168929-1	5/24/19	680-571698	W	N-Butylbenzene	99	96	76.0	125	3.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	N-Propylbenzene	105	99	80.0	129	5.9	20
SW8260B	680-168929-1	5/24/19	680-571698	W	O-Xylene	98	96	80.0	125	2.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	P-Isopropyltoluene (Cymene)	99	96	78.0	134	3.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Sec-Butylbenzene	108	101	74.0	131	6.7	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Styrene	102	99	50.0	150	3.0	30

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-168929-1	5/24/19	680-571698	W	Tert-Butylbenzene	108	101	67.0	128	6.7	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Tetrachloroethylene	106	110	68.0	133	3.7	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Toluene	98	97	36.0	176	1.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Trans-1,2-Dichloroethene	101	96	73.0	134	5.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Trans-1,3-Dichloropropene	99	101	79.0	122	2.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Trans-1,4-Dichloro-2-Butene	104	97	70.0	130	7.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Trichloroethene	103	101	70.0	127	2.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Trichlorofluoromethane	102	103	68.0	129	1.0	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Vinyl Chloride	88	87	54.0	154	1.1	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Vinyl Acetate	109	106	79.0	136	2.8	20
SW8260B	680-168929-1	5/24/19	680-571698	W	Xylenes (Total)	99	97	80.0	133	2.0	20
SW9056A	680-168493-1,-2	5/14/19	680-570216	W	Sulfate	101	101	80.0	120	0	20
SW9056A	680-168493-1,-2	5/14/19	680-570289	W	Sulfate	104	107	80.0	120	2.8	20
SW9056A	680-168493-1,-2	5/15/19	680-570505	W	Sulfate	95	95	80.0	120	0	20
SW9056A	680-168798-1	5/22/19	680-571368	W	Sulfate	107	106	80.0	120	0.94	20
SW9056A	680-168800-1	5/22/19	680-571368	W	Sulfate	107	106	80.0	120	0.94	20
SW9056A	680-169087-1	5/25/19	680-571865	W	Sulfate	117	112	80.0	120	4.4	20
SW9056A	680-160798-1	11/20/18	680-548308	W	Sulfate	95	92	80.0	120	3.2	20
SW9056A	680-160798-1	11/20/18	680-548347	W	Sulfate	92	93	80.0	120	1.1	20
SW9056A	680-160798-1	11/27/18	680-549097	W	Sulfate	105	101	80.0	120	3.9	20
SW9056A	680-160919-1	11/28/18	680-549186	W	Sulfate	94	92	80.0	120	2.2	20
SW9056A	680-161061-1	11/28/18	680-549190	W	Sulfate	107	103	80.0	120	3.8	20
SW9056A	680-161061-1	11/28/18	680-549185	W	Sulfate	107	106	80.0	120	0.94	20
SW9056A	680-161061-1	11/28/18	680-549241	W	Sulfate	102	100	80.0	120	2.0	20
SW9056A	680-161411-1	12/7/18	680-550525	W	Sulfate	98	97	80.0	120	1.0	20
SW9056A	680-168929-1	5/24/19	680-571738	W	Sulfate	97	97	80.0	120	0	20
SW9060A	680-168493-1,-2	5/9/19	680-569663	W	Total Organic Carbon	97	97	80.0	120	0	20
SW9060A	680-168493-1,-2	5/9/19	680-569663	W	Total Organic Carbon	96	96	80.0	120	0	20
SW9060A	680-168493-1,-2	5/9/19	680-569663	W	Total Organic Carbon	97	97	80.0	120	0	20
SW9060A	680-168493-1,-2	5/9/19	680-569663	W	Total Organic Carbon	95	94	80.0	120	1.1	20
SW9060A	680-168493-1,-2	5/9/19	680-569663	W	Total Organic Carbon	95	95	80.0	120	0	20
SW9060A	680-168493-1,-2	5/9/19	680-569807	W	Total Organic Carbon	97	95	80.0	120	2.1	20
SW9060A	680-168493-1,-2	5/9/19	680-569807	W	Total Organic Carbon	95	95	80.0	120	0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW9060A	680-168493-1,-2	5/9/19	680-569807	W	Total Organic Carbon	95	96	80.0	120	1.0	20
SW9060A	680-168493-1,-2	5/9/19	680-569807	W	Total Organic Carbon	93	93	80.0	120	0	20
SW9060A	680-168493-1,-2	5/9/19	680-569807	W	Total Organic Carbon	94	94	80.0	120	0	20
SW9060A	680-168800-1	5/15/19	680-570575	W	Total Organic Carbon	100	100	80.0	120	0	20
SW9060A	680-168800-1	5/15/19	680-570575	W	Total Organic Carbon	99	98	80.0	120	1.0	20
SW9060A	680-168800-1	5/15/19	680-570575	W	Total Organic Carbon	99	99	80.0	120	0	20
SW9060A	680-168800-1	5/15/19	680-570575	W	Total Organic Carbon	97	96	80.0	120	1.0	20
SW9060A	680-168800-1	5/15/19	680-570575	W	Total Organic Carbon	99	98	80.0	120	1.0	20
SW9060A	680-169087-1	5/23/19	680-571777	W	Total Organic Carbon	99	98	80.0	120	1.0	20
SW9060A	680-169087-1	5/23/19	680-571777	W	Total Organic Carbon	98	97	80.0	120	1.0	20
SW9060A	680-169087-1	5/23/19	680-571777	W	Total Organic Carbon	99	99	80.0	120	0	20
SW9060A	680-169087-1	5/23/19	680-571777	W	Total Organic Carbon	96	97	80.0	120	1.0	20
SW9060A	680-169087-1	5/23/19	680-571777	W	Total Organic Carbon	97	96	80.0	120	1.0	20
SW9060A	680-160798-1	11/19/18	680-548291	W	Total Organic Carbon	100	101	80.0	120	1.0	20
SW9060A	680-160798-1	11/19/18	680-548291	W	Total Organic Carbon	98	98	80.0	120	0	20
SW9060A	680-160798-1	11/19/18	680-548291	W	Total Organic Carbon	100	99	80.0	120	1.0	20
SW9060A	680-160798-1	11/19/18	680-548291	W	Total Organic Carbon	96	96	80.0	120	0	20
SW9060A	680-160798-1	11/19/18	680-548291	W	Total Organic Carbon	97	97	80.0	120	0	20
SW9060A	680-160798-1	11/20/18	680-548292	W	Total Organic Carbon	97	97	80.0	120	0	20
SW9060A	680-160798-1	11/20/18	680-548292	W	Total Organic Carbon	96	96	80.0	120	0	20
SW9060A	680-160798-1	11/20/18	680-548292	W	Total Organic Carbon	97	98	80.0	120	1.0	20
SW9060A	680-160798-1	11/20/18	680-548292	W	Total Organic Carbon	95	95	80.0	120	0	20
SW9060A	680-160798-1	11/20/18	680-548292	W	Total Organic Carbon	94	95	80.0	120	1.1	20
SW9060A	680-161411-1	12/4/18	680-550041	W	Total Organic Carbon	102	100	80.0	120	2.0	20
SW9060A	680-161411-1	12/4/18	680-550041	W	Total Organic Carbon	100	99	80.0	120	1.0	20
SW9060A	680-161411-1	12/4/18	680-550041	W	Total Organic Carbon	100	100	80.0	120	0	20
SW9060A	680-161411-1	12/4/18	680-550041	W	Total Organic Carbon	99	99	80.0	120	0	20
SW9060A	680-161411-1	12/4/18	680-550041	W	Total Organic Carbon	100	99	80.0	120	1.0	20

**Table 4-7: Summary of LCS/LCSD Recoveries and RPDs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)**

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit

Notes:

LCL = Lower control limit

LCS = Laboratory Control Standard

LCSD = Laboratory Control Standard Duplicate

%R = Percent Recovery

RPD = Relative percent Difference

UCL = Upper control limit

Blue text, bold and outlined = Greater than acceptance limits.

Bold and shaded = Less than acceptance limits

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-169087-1	MATERIAL BLANK	5/15/19	W	NS	SW8260B	1,2-Dichloroethane-D4	96	73	131
680-169087-1	MATERIAL BLANK	5/15/19	W	NS	SW8260B	4-Bromofluorobenzene	99	80	120
680-169087-1	MATERIAL BLANK	5/15/19	W	NS	SW8260B	Dibromofluoromethane	101	80	122
680-169087-1	MATERIAL BLANK	5/15/19	W	NS	SW8260B	Toluene-D8	100	80	120
680-160798-1	OLF-G07	11/13/18	WG	MS	SW8260B	1,2-Dichloroethane-D4	93	73	131
680-160798-1	OLF-G07	11/13/18	WG	MSD	SW8260B	1,2-Dichloroethane-D4	101	73	131
680-160798-1	OLF-G07	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	103	73	131
680-160798-1	OLF-G07	11/13/18	WG	MS	SW8260B	4-Bromofluorobenzene	93	80	120
680-160798-1	OLF-G07	11/13/18	WG	MSD	SW8260B	4-Bromofluorobenzene	91	80	120
680-160798-1	OLF-G07	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	91	80	120
680-160798-1	OLF-G07	11/13/18	WG	MS	SW8260B	Dibromofluoromethane	105	80	122
680-160798-1	OLF-G07	11/13/18	WG	MSD	SW8260B	Dibromofluoromethane	101	80	122
680-160798-1	OLF-G07	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	109	80	122
680-160798-1	OLF-G07	11/13/18	WG	MS	SW8260B	Toluene-D8	106	80	120
680-160798-1	OLF-G07	11/13/18	WG	MSD	SW8260B	Toluene-D8	104	80	120
680-160798-1	OLF-G07	11/13/18	WG	NS	SW8260B	Toluene-D8	103	80	120
680-168800-1	OLF-G07	5/7/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	97	73	131
680-168800-1	OLF-G07	5/7/19	WG	NS	SW8260B	4-Bromofluorobenzene	91	80	120
680-168800-1	OLF-G07	5/7/19	WG	NS	SW8260B	Dibromofluoromethane	101	80	122
680-168800-1	OLF-G07	5/7/19	WG	NS	SW8260B	Toluene-D8	101	80	120
680-161061-1	OLF-G12	11/19/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	105	73	131
680-161061-1	OLF-G12	11/19/18	WG	NS	SW8260B	4-Bromofluorobenzene	92	80	120
680-161061-1	OLF-G12	11/19/18	WG	NS	SW8260B	Dibromofluoromethane	103	80	122
680-161061-1	OLF-G12	11/19/18	WG	NS	SW8260B	Toluene-D8	101	80	120
680-161061-1	OLF-G12	11/19/18	WG	FD	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-161061-1	OLF-G12	11/19/18	WG	FD	SW8260B	1,2-Dichloroethane-D4	106	73	131
680-161061-1	OLF-G12	11/19/18	WG	FD	SW8260B	4-Bromofluorobenzene	92	80	120
680-161061-1	OLF-G12	11/19/18	WG	FD	SW8260B	4-Bromofluorobenzene	93	80	120
680-161061-1	OLF-G12	11/19/18	WG	FD	SW8260B	Dibromofluoromethane	105	80	122
680-161061-1	OLF-G12	11/19/18	WG	FD	SW8260B	Dibromofluoromethane	103	80	122
680-161061-1	OLF-G12	11/19/18	WG	FD	SW8260B	Toluene-D8	107	80	120
680-161061-1	OLF-G12	11/19/18	WG	FD	SW8260B	Toluene-D8	100	80	120
680-161061-1	OLF-G18	11/19/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	88	73	131
680-161061-1	OLF-G18	11/19/18	WG	NS	SW8260B	4-Bromofluorobenzene	101	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-161061-1	OLF-G18	11/19/18	WG	NS	SW8260B	Dibromofluoromethane	100	80	122
680-161061-1	OLF-G18	11/19/18	WG	NS	SW8260B	Toluene-D8	100	80	120
680-160798-1	OLF-G20	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	102	73	131
680-160798-1	OLF-G20	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	91	80	120
680-160798-1	OLF-G20	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	108	80	122
680-160798-1	OLF-G20	11/13/18	WG	NS	SW8260B	Toluene-D8	101	80	120
680-160798-1	OLF-G20	11/13/18	WG	FD	SW8260B	1,2-Dichloroethane-D4	101	73	131
680-160798-1	OLF-G20	11/13/18	WG	FD	SW8260B	4-Bromofluorobenzene	90	80	120
680-160798-1	OLF-G20	11/13/18	WG	FD	SW8260B	Dibromofluoromethane	108	80	122
680-160798-1	OLF-G20	11/13/18	WG	FD	SW8260B	Toluene-D8	103	80	120
680-168800-1	OLF-G20	5/7/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	100	73	131
680-168800-1	OLF-G20	5/7/19	WG	NS	SW8260B	4-Bromofluorobenzene	99	80	120
680-168800-1	OLF-G20	5/7/19	WG	NS	SW8260B	Dibromofluoromethane	103	80	122
680-168800-1	OLF-G20	5/7/19	WG	NS	SW8260B	Toluene-D8	103	80	120
680-161061-1	OLF-G21	11/19/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	100	73	131
680-161061-1	OLF-G21	11/19/18	WG	NS	SW8260B	4-Bromofluorobenzene	100	80	120
680-161061-1	OLF-G21	11/19/18	WG	NS	SW8260B	Dibromofluoromethane	104	80	122
680-161061-1	OLF-G21	11/19/18	WG	NS	SW8260B	Toluene-D8	103	80	120
680-161411-1	OLF-G22	11/27/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	92	73	131
680-161411-1	OLF-G22	11/27/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	108	73	131
680-161411-1	OLF-G22	11/27/18	WG	NS	SW8260B	4-Bromofluorobenzene	107	80	120
680-161411-1	OLF-G22	11/27/18	WG	NS	SW8260B	4-Bromofluorobenzene	91	80	120
680-161411-1	OLF-G22	11/27/18	WG	NS	SW8260B	Dibromofluoromethane	93	80	122
680-161411-1	OLF-G22	11/27/18	WG	NS	SW8260B	Dibromofluoromethane	104	80	122
680-161411-1	OLF-G22	11/27/18	WG	NS	SW8260B	Toluene-D8	110	80	120
680-161411-1	OLF-G22	11/27/18	WG	NS	SW8260B	Toluene-D8	95	80	120
680-160919-1	OLF-G23	11/15/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	115	73	131
680-160919-1	OLF-G23	11/15/18	WG	NS	SW8260B	4-Bromofluorobenzene	100	80	120
680-160919-1	OLF-G23	11/15/18	WG	NS	SW8260B	Dibromofluoromethane	117	80	122
680-160919-1	OLF-G23	11/15/18	WG	NS	SW8260B	Toluene-D8	103	80	120
680-168798-1	OLF-G23	5/8/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	140	73	131
680-168798-1	OLF-G23	5/8/19	WG	NS	SW8260B	4-Bromofluorobenzene	96	80	120
680-168798-1	OLF-G23	5/8/19	WG	NS	SW8260B	Dibromofluoromethane	129	80	122
680-168798-1	OLF-G23	5/8/19	WG	NS	SW8260B	Toluene-D8	90	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-160919-1	OLF-G24	11/15/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	94	73	131
680-160919-1	OLF-G24	11/15/18	WG	NS	SW8260B	4-Bromofluorobenzene	100	80	120
680-160919-1	OLF-G24	11/15/18	WG	NS	SW8260B	Dibromofluoromethane	101	80	122
680-160919-1	OLF-G24	11/15/18	WG	NS	SW8260B	Toluene-D8	100	80	120
680-168798-1	OLF-G24	5/8/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	100	73	131
680-168798-1	OLF-G24	5/8/19	WG	NS	SW8260B	4-Bromofluorobenzene	97	80	120
680-168798-1	OLF-G24	5/8/19	WG	NS	SW8260B	Dibromofluoromethane	102	80	122
680-168798-1	OLF-G24	5/8/19	WG	NS	SW8260B	Toluene-D8	102	80	120
680-161411-1	OLF-G31	11/26/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-161411-1	OLF-G31	11/26/18	WG	NS	SW8260B	4-Bromofluorobenzene	94	80	120
680-161411-1	OLF-G31	11/26/18	WG	NS	SW8260B	Dibromofluoromethane	103	80	122
680-161411-1	OLF-G31	11/26/18	WG	NS	SW8260B	Toluene-D8	106	80	120
680-161411-1	OLF-G31	11/26/18	WG	FD	SW8260B	1,2-Dichloroethane-D4	104	73	131
680-161411-1	OLF-G31	11/26/18	WG	FD	SW8260B	4-Bromofluorobenzene	106	80	120
680-161411-1	OLF-G31	11/26/18	WG	FD	SW8260B	Dibromofluoromethane	104	80	122
680-161411-1	OLF-G31	11/26/18	WG	FD	SW8260B	Toluene-D8	107	80	120
680-169087-1	OLF-G31	5/15/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	124	73	131
680-169087-1	OLF-G31	5/15/19	WG	NS	SW8260B	4-Bromofluorobenzene	84	80	120
680-169087-1	OLF-G31	5/15/19	WG	NS	SW8260B	Dibromofluoromethane	111	80	122
680-169087-1	OLF-G31	5/15/19	WG	NS	SW8260B	Toluene-D8	104	80	120
680-161411-1	OLF-G32	11/26/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-161411-1	OLF-G32	11/26/18	WG	NS	SW8260B	4-Bromofluorobenzene	93	80	120
680-161411-1	OLF-G32	11/26/18	WG	NS	SW8260B	Dibromofluoromethane	104	80	122
680-161411-1	OLF-G32	11/26/18	WG	NS	SW8260B	Toluene-D8	105	80	120
680-169087-1	OLF-G32	5/14/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	118	73	131
680-169087-1	OLF-G32	5/14/19	WG	NS	SW8260B	4-Bromofluorobenzene	82	80	120
680-169087-1	OLF-G32	5/14/19	WG	NS	SW8260B	Dibromofluoromethane	107	80	122
680-169087-1	OLF-G32	5/14/19	WG	NS	SW8260B	Toluene-D8	104	80	120
680-161061-1	OLF-G33	11/20/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-161061-1	OLF-G33	11/20/18	WG	NS	SW8260B	4-Bromofluorobenzene	91	80	120
680-161061-1	OLF-G33	11/20/18	WG	NS	SW8260B	Dibromofluoromethane	101	80	122
680-161061-1	OLF-G33	11/20/18	WG	NS	SW8260B	Toluene-D8	105	80	120
680-161061-1	OLF-G34	11/19/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	101	73	131
680-161061-1	OLF-G34	11/19/18	WG	NS	SW8260B	4-Bromofluorobenzene	99	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-161061-1	OLF-G34	11/19/18	WG	NS	SW8260B	Dibromofluoromethane	107	80	122
680-161061-1	OLF-G34	11/19/18	WG	NS	SW8260B	Toluene-D8	102	80	120
680-160919-1	OLF-G35	11/15/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	93	73	131
680-160919-1	OLF-G35	11/15/18	WG	NS	SW8260B	4-Bromofluorobenzene	99	80	120
680-160919-1	OLF-G35	11/15/18	WG	NS	SW8260B	Dibromofluoromethane	102	80	122
680-160919-1	OLF-G35	11/15/18	WG	NS	SW8260B	Toluene-D8	101	80	120
680-168798-1	OLF-G35	5/8/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	98	73	131
680-168798-1	OLF-G35	5/8/19	WG	NS	SW8260B	4-Bromofluorobenzene	97	80	120
680-168798-1	OLF-G35	5/8/19	WG	NS	SW8260B	Dibromofluoromethane	103	80	122
680-168798-1	OLF-G35	5/8/19	WG	NS	SW8260B	Toluene-D8	103	80	120
680-161061-1	OLF-G36	11/19/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	90	73	131
680-161061-1	OLF-G36	11/19/18	WG	NS	SW8260B	4-Bromofluorobenzene	100	80	120
680-161061-1	OLF-G36	11/19/18	WG	NS	SW8260B	Dibromofluoromethane	97	80	122
680-161061-1	OLF-G36	11/19/18	WG	NS	SW8260B	Toluene-D8	96	80	120
680-161061-1	OLF-G42	11/19/18	WG	MS	SW8260B	1,2-Dichloroethane-D4	90	73	131
680-161061-1	OLF-G42	11/19/18	WG	MSD	SW8260B	1,2-Dichloroethane-D4	87	73	131
680-161061-1	OLF-G42	11/19/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	99	73	131
680-161061-1	OLF-G42	11/19/18	WG	MS	SW8260B	4-Bromofluorobenzene	95	80	120
680-161061-1	OLF-G42	11/19/18	WG	MSD	SW8260B	4-Bromofluorobenzene	96	80	120
680-161061-1	OLF-G42	11/19/18	WG	NS	SW8260B	4-Bromofluorobenzene	103	80	120
680-161061-1	OLF-G42	11/19/18	WG	MS	SW8260B	Dibromofluoromethane	94	80	122
680-161061-1	OLF-G42	11/19/18	WG	MSD	SW8260B	Dibromofluoromethane	94	80	122
680-161061-1	OLF-G42	11/19/18	WG	NS	SW8260B	Dibromofluoromethane	105	80	122
680-161061-1	OLF-G42	11/19/18	WG	MS	SW8260B	Toluene-D8	92	80	120
680-161061-1	OLF-G42	11/19/18	WG	MSD	SW8260B	Toluene-D8	93	80	120
680-161061-1	OLF-G42	11/19/18	WG	NS	SW8260B	Toluene-D8	101	80	120
680-169087-1	OLF-G42	5/13/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	98	73	131
680-169087-1	OLF-G42	5/13/19	WG	NS	SW8260B	4-Bromofluorobenzene	94	80	120
680-169087-1	OLF-G42	5/13/19	WG	NS	SW8260B	Dibromofluoromethane	102	80	122
680-169087-1	OLF-G42	5/13/19	WG	NS	SW8260B	Toluene-D8	103	80	120
680-161411-1	OLF-G47	11/28/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	107	73	131
680-161411-1	OLF-G47	11/28/18	WG	NS	SW8260B	4-Bromofluorobenzene	105	80	120
680-161411-1	OLF-G47	11/28/18	WG	NS	SW8260B	Dibromofluoromethane	105	80	122
680-161411-1	OLF-G47	11/28/18	WG	NS	SW8260B	Toluene-D8	110	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-160919-1	OLF-G48	11/15/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	92	73	131
680-160919-1	OLF-G48	11/15/18	WG	NS	SW8260B	4-Bromofluorobenzene	101	80	120
680-160919-1	OLF-G48	11/15/18	WG	NS	SW8260B	Dibromofluoromethane	102	80	122
680-160919-1	OLF-G48	11/15/18	WG	NS	SW8260B	Toluene-D8	100	80	120
680-168798-1	OLF-G48	5/8/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	100	73	131
680-168798-1	OLF-G48	5/8/19	WG	NS	SW8260B	4-Bromofluorobenzene	96	80	120
680-168798-1	OLF-G48	5/8/19	WG	NS	SW8260B	Dibromofluoromethane	106	80	122
680-168798-1	OLF-G48	5/8/19	WG	NS	SW8260B	Toluene-D8	101	80	120
680-161061-1	OLF-G52	11/20/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	97	73	131
680-161061-1	OLF-G52	11/20/18	WG	NS	SW8260B	4-Bromofluorobenzene	92	80	120
680-161061-1	OLF-G52	11/20/18	WG	NS	SW8260B	Dibromofluoromethane	103	80	122
680-161061-1	OLF-G52	11/20/18	WG	NS	SW8260B	Toluene-D8	107	80	120
680-161411-1	OLF-G70	11/26/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	105	73	131
680-161411-1	OLF-G70	11/26/18	WG	NS	SW8260B	4-Bromofluorobenzene	105	80	120
680-161411-1	OLF-G70	11/26/18	WG	NS	SW8260B	Dibromofluoromethane	106	80	122
680-161411-1	OLF-G70	11/26/18	WG	NS	SW8260B	Toluene-D8	107	80	120
680-169087-1	OLF-G70	5/15/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	121	73	131
680-169087-1	OLF-G70	5/15/19	WG	NS	SW8260B	4-Bromofluorobenzene	83	80	120
680-169087-1	OLF-G70	5/15/19	WG	NS	SW8260B	Dibromofluoromethane	109	80	122
680-169087-1	OLF-G70	5/15/19	WG	NS	SW8260B	Toluene-D8	106	80	120
680-160798-1	OLF-G71-PORT1	11/14/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-160798-1	OLF-G71-PORT1	11/14/18	WG	NS	SW8260B	4-Bromofluorobenzene	91	80	120
680-160798-1	OLF-G71-PORT1	11/14/18	WG	NS	SW8260B	Dibromofluoromethane	94	80	122
680-160798-1	OLF-G71-PORT1	11/14/18	WG	NS	SW8260B	Toluene-D8	96	80	120
680-168798-1	OLF-G71-PORT1	5/6/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	96	73	131
680-168798-1	OLF-G71-PORT1	5/6/19	WG	NS	SW8260B	4-Bromofluorobenzene	93	80	120
680-168798-1	OLF-G71-PORT1	5/6/19	WG	NS	SW8260B	Dibromofluoromethane	102	80	122
680-168798-1	OLF-G71-PORT1	5/6/19	WG	NS	SW8260B	Toluene-D8	100	80	120
680-168798-1	OLF-G71-PORT1	5/6/19	WG	FD	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-168798-1	OLF-G71-PORT1	5/6/19	WG	FD	SW8260B	4-Bromofluorobenzene	100	80	120
680-168798-1	OLF-G71-PORT1	5/6/19	WG	FD	SW8260B	Dibromofluoromethane	103	80	122
680-168798-1	OLF-G71-PORT1	5/6/19	WG	FD	SW8260B	Toluene-D8	96	80	120
680-160798-1	OLF-G71-PORT2	11/14/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	97	73	131
680-160798-1	OLF-G71-PORT2	11/14/18	WG	NS	SW8260B	4-Bromofluorobenzene	89	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-160798-1	OLF-G71-PORT2	11/14/18	WG	NS	SW8260B	Dibromofluoromethane	105	80	122
680-160798-1	OLF-G71-PORT2	11/14/18	WG	NS	SW8260B	Toluene-D8	104	80	120
680-168798-1	OLF-G71-PORT2	5/6/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	94	73	131
680-168798-1	OLF-G71-PORT2	5/6/19	WG	NS	SW8260B	4-Bromofluorobenzene	99	80	120
680-168798-1	OLF-G71-PORT2	5/6/19	WG	NS	SW8260B	Dibromofluoromethane	99	80	122
680-168798-1	OLF-G71-PORT2	5/6/19	WG	NS	SW8260B	Toluene-D8	98	80	120
680-168798-1	OLF-G71-PORT2	5/6/19	WG	FD	SW8260B	1,2-Dichloroethane-D4	96	73	131
680-168798-1	OLF-G71-PORT2	5/6/19	WG	FD	SW8260B	4-Bromofluorobenzene	95	80	120
680-168798-1	OLF-G71-PORT2	5/6/19	WG	FD	SW8260B	Dibromofluoromethane	100	80	122
680-168798-1	OLF-G71-PORT2	5/6/19	WG	FD	SW8260B	Toluene-D8	98	80	120
680-160798-1	OLF-G71-PORT3	11/14/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	91	73	131
680-160798-1	OLF-G71-PORT3	11/14/18	WG	NS	SW8260B	4-Bromofluorobenzene	93	80	120
680-160798-1	OLF-G71-PORT3	11/14/18	WG	NS	SW8260B	Dibromofluoromethane	96	80	122
680-160798-1	OLF-G71-PORT3	11/14/18	WG	NS	SW8260B	Toluene-D8	94	80	120
680-168798-1	OLF-G71-PORT3	5/6/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	97	73	131
680-168798-1	OLF-G71-PORT3	5/6/19	WG	NS	SW8260B	4-Bromofluorobenzene	96	80	120
680-168798-1	OLF-G71-PORT3	5/6/19	WG	NS	SW8260B	Dibromofluoromethane	100	80	122
680-168798-1	OLF-G71-PORT3	5/6/19	WG	NS	SW8260B	Toluene-D8	101	80	120
680-160798-1	OLF-G71-PORT4	11/14/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	92	73	131
680-160798-1	OLF-G71-PORT4	11/14/18	WG	NS	SW8260B	4-Bromofluorobenzene	90	80	120
680-160798-1	OLF-G71-PORT4	11/14/18	WG	NS	SW8260B	Dibromofluoromethane	95	80	122
680-160798-1	OLF-G71-PORT4	11/14/18	WG	NS	SW8260B	Toluene-D8	96	80	120
680-168798-1	OLF-G71-PORT4	5/6/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	100	73	131
680-168798-1	OLF-G71-PORT4	5/6/19	WG	NS	SW8260B	4-Bromofluorobenzene	96	80	120
680-168798-1	OLF-G71-PORT4	5/6/19	WG	NS	SW8260B	Dibromofluoromethane	103	80	122
680-168798-1	OLF-G71-PORT4	5/6/19	WG	NS	SW8260B	Toluene-D8	100	80	120
680-160798-1	OLF-G71-PORT5	11/14/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	92	73	131
680-160798-1	OLF-G71-PORT5	11/14/18	WG	NS	SW8260B	4-Bromofluorobenzene	90	80	120
680-160798-1	OLF-G71-PORT5	11/14/18	WG	NS	SW8260B	Dibromofluoromethane	95	80	122
680-160798-1	OLF-G71-PORT5	11/14/18	WG	NS	SW8260B	Toluene-D8	94	80	120
680-168798-1	OLF-G71-PORT5	5/6/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	93	73	131
680-168798-1	OLF-G71-PORT5	5/6/19	WG	NS	SW8260B	4-Bromofluorobenzene	96	80	120
680-168798-1	OLF-G71-PORT5	5/6/19	WG	NS	SW8260B	Dibromofluoromethane	100	80	122
680-168798-1	OLF-G71-PORT5	5/6/19	WG	NS	SW8260B	Toluene-D8	98	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-160798-1	OLF-G72-PORT1	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	96	73	131
680-160798-1	OLF-G72-PORT1	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-160798-1	OLF-G72-PORT1	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	96	73	131
680-160798-1	OLF-G72-PORT1	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	98	80	120
680-160798-1	OLF-G72-PORT1	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	86	80	120
680-160798-1	OLF-G72-PORT1	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	99	80	120
680-160798-1	OLF-G72-PORT1	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	106	80	122
680-160798-1	OLF-G72-PORT1	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	98	80	122
680-160798-1	OLF-G72-PORT1	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	100	80	122
680-160798-1	OLF-G72-PORT1	11/13/18	WG	MS	SW8260B	Toluene-D8	103	80	120
680-160798-1	OLF-G72-PORT1	11/13/18	WG	MSD	SW8260B	Toluene-D8	96	80	120
680-160798-1	OLF-G72-PORT1	11/13/18	WG	NS	SW8260B	Toluene-D8	97	80	120
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	MS	SW8260B	1,2-Dichloroethane-D4	36	73	131
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	MSD	SW8260B	1,2-Dichloroethane-D4	39	73	131
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	94	73	131
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	MS	SW8260B	4-Bromofluorobenzene	100	80	120
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	MSD	SW8260B	4-Bromofluorobenzene	98	80	120
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	NS	SW8260B	4-Bromofluorobenzene	102	80	120
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	MS	SW8260B	Dibromofluoromethane	100	80	122
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	MSD	SW8260B	Dibromofluoromethane	78	80	122
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	NS	SW8260B	Dibromofluoromethane	80	80	122
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	MS	SW8260B	Toluene-D8	108	80	120
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	MSD	SW8260B	Toluene-D8	98	80	120
680-168493-1,-2	OLF-G72-PORT1	5/2/19	WG	NS	SW8260B	Toluene-D8	108	80	120
680-160798-1	OLF-G72-PORT2	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-160798-1	OLF-G72-PORT2	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	92	80	120
680-160798-1	OLF-G72-PORT2	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	98	80	122
680-160798-1	OLF-G72-PORT2	11/13/18	WG	NS	SW8260B	Toluene-D8	97	80	120
680-168493-1,-2	OLF-G72-PORT2	5/2/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	92	73	131
680-168493-1,-2	OLF-G72-PORT2	5/2/19	WG	NS	SW8260B	4-Bromofluorobenzene	99	80	120
680-168493-1,-2	OLF-G72-PORT2	5/2/19	WG	NS	SW8260B	Dibromofluoromethane	98	80	122
680-168493-1,-2	OLF-G72-PORT2	5/2/19	WG	NS	SW8260B	Toluene-D8	98	80	120
680-160798-1	OLF-G72-PORT3	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-160798-1	OLF-G72-PORT3	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	95	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-160798-1	OLF-G72-PORT3	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	96	80	122
680-160798-1	OLF-G72-PORT3	11/13/18	WG	NS	SW8260B	Toluene-D8	96	80	120
680-168493-1,-2	OLF-G72-PORT3	5/2/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	92	73	131
680-168493-1,-2	OLF-G72-PORT3	5/2/19	WG	NS	SW8260B	4-Bromofluorobenzene	98	80	120
680-168493-1,-2	OLF-G72-PORT3	5/2/19	WG	NS	SW8260B	Dibromofluoromethane	97	80	122
680-168493-1,-2	OLF-G72-PORT3	5/2/19	WG	NS	SW8260B	Toluene-D8	100	80	120
680-160798-1	OLF-G72-PORT4	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	92	73	131
680-160798-1	OLF-G72-PORT4	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	90	80	120
680-160798-1	OLF-G72-PORT4	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	94	80	122
680-160798-1	OLF-G72-PORT4	11/13/18	WG	NS	SW8260B	Toluene-D8	95	80	120
680-168493-1,-2	OLF-G72-PORT4	5/2/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	90	73	131
680-168493-1,-2	OLF-G72-PORT4	5/2/19	WG	NS	SW8260B	4-Bromofluorobenzene	99	80	120
680-168493-1,-2	OLF-G72-PORT4	5/2/19	WG	NS	SW8260B	Dibromofluoromethane	97	80	122
680-168493-1,-2	OLF-G72-PORT4	5/2/19	WG	NS	SW8260B	Toluene-D8	100	80	120
680-160798-1	OLF-G72-PORT5	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	96	73	131
680-160798-1	OLF-G72-PORT5	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	93	80	120
680-160798-1	OLF-G72-PORT5	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	96	80	122
680-160798-1	OLF-G72-PORT5	11/13/18	WG	NS	SW8260B	Toluene-D8	95	80	120
680-168493-1,-2	OLF-G72-PORT5	5/2/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	90	73	131
680-168493-1,-2	OLF-G72-PORT5	5/2/19	WG	NS	SW8260B	4-Bromofluorobenzene	97	80	120
680-168493-1,-2	OLF-G72-PORT5	5/2/19	WG	NS	SW8260B	Dibromofluoromethane	95	80	122
680-168493-1,-2	OLF-G72-PORT5	5/2/19	WG	NS	SW8260B	Toluene-D8	97	80	120
680-160798-1	OLF-G72-PORT6	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	97	73	131
680-160798-1	OLF-G72-PORT6	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	90	80	120
680-160798-1	OLF-G72-PORT6	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	97	80	122
680-160798-1	OLF-G72-PORT6	11/13/18	WG	NS	SW8260B	Toluene-D8	96	80	120
680-168493-1,-2	OLF-G72-PORT6	5/2/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	91	73	131
680-168493-1,-2	OLF-G72-PORT6	5/2/19	WG	NS	SW8260B	4-Bromofluorobenzene	96	80	120
680-168493-1,-2	OLF-G72-PORT6	5/2/19	WG	NS	SW8260B	Dibromofluoromethane	96	80	122
680-168493-1,-2	OLF-G72-PORT6	5/2/19	WG	NS	SW8260B	Toluene-D8	97	80	120
680-160798-1	OLF-G73-PORT1	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	101	73	131
680-160798-1	OLF-G73-PORT1	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	90	80	120
680-160798-1	OLF-G73-PORT1	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	108	80	122
680-160798-1	OLF-G73-PORT1	11/13/18	WG	NS	SW8260B	Toluene-D8	102	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-168493-1,-2	OLF-G73-PORT1	5/1/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	93	73	131
680-168493-1,-2	OLF-G73-PORT1	5/1/19	WG	NS	SW8260B	4-Bromofluorobenzene	98	80	120
680-168493-1,-2	OLF-G73-PORT1	5/1/19	WG	NS	SW8260B	Dibromofluoromethane	97	80	122
680-168493-1,-2	OLF-G73-PORT1	5/1/19	WG	NS	SW8260B	Toluene-D8	100	80	120
680-160798-1	OLF-G73-PORT2	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	98	73	131
680-160798-1	OLF-G73-PORT2	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	90	80	120
680-160798-1	OLF-G73-PORT2	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	105	80	122
680-160798-1	OLF-G73-PORT2	11/13/18	WG	NS	SW8260B	Toluene-D8	103	80	120
680-168493-1,-2	OLF-G73-PORT2	5/1/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-168493-1,-2	OLF-G73-PORT2	5/1/19	WG	NS	SW8260B	4-Bromofluorobenzene	98	80	120
680-168493-1,-2	OLF-G73-PORT2	5/1/19	WG	NS	SW8260B	Dibromofluoromethane	100	80	122
680-168493-1,-2	OLF-G73-PORT2	5/1/19	WG	NS	SW8260B	Toluene-D8	99	80	120
680-160798-1	OLF-G73-PORT3	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	100	73	131
680-160798-1	OLF-G73-PORT3	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	90	80	120
680-160798-1	OLF-G73-PORT3	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	106	80	122
680-160798-1	OLF-G73-PORT3	11/13/18	WG	NS	SW8260B	Toluene-D8	103	80	120
680-168493-1,-2	OLF-G73-PORT3	5/1/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	94	73	131
680-168493-1,-2	OLF-G73-PORT3	5/1/19	WG	NS	SW8260B	4-Bromofluorobenzene	98	80	120
680-168493-1,-2	OLF-G73-PORT3	5/1/19	WG	NS	SW8260B	Dibromofluoromethane	98	80	122
680-168493-1,-2	OLF-G73-PORT3	5/1/19	WG	NS	SW8260B	Toluene-D8	100	80	120
680-160798-1	OLF-G73-PORT4	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	99	73	131
680-160798-1	OLF-G73-PORT4	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	87	80	120
680-160798-1	OLF-G73-PORT4	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	106	80	122
680-160798-1	OLF-G73-PORT4	11/13/18	WG	NS	SW8260B	Toluene-D8	103	80	120
680-168493-1,-2	OLF-G73-PORT4	5/1/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	101	73	131
680-168493-1,-2	OLF-G73-PORT4	5/1/19	WG	NS	SW8260B	4-Bromofluorobenzene	94	80	120
680-168493-1,-2	OLF-G73-PORT4	5/1/19	WG	NS	SW8260B	Dibromofluoromethane	103	80	122
680-168493-1,-2	OLF-G73-PORT4	5/1/19	WG	NS	SW8260B	Toluene-D8	101	80	120
680-160798-1	OLF-G73-PORT5	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	97	73	131
680-160798-1	OLF-G73-PORT5	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	90	80	120
680-160798-1	OLF-G73-PORT5	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	104	80	122
680-160798-1	OLF-G73-PORT5	11/13/18	WG	NS	SW8260B	Toluene-D8	103	80	120
680-168493-1,-2	OLF-G73-PORT5	5/1/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	97	73	131
680-168493-1,-2	OLF-G73-PORT5	5/1/19	WG	NS	SW8260B	4-Bromofluorobenzene	95	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-168493-1,-2	OLF-G73-PORT5	5/1/19	WG	NS	SW8260B	Dibromofluoromethane	101	80	122
680-168493-1,-2	OLF-G73-PORT5	5/1/19	WG	NS	SW8260B	Toluene-D8	102	80	120
680-160798-1	OLF-G74-PORT1	11/12/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	92	73	131
680-160798-1	OLF-G74-PORT1	11/12/18	WG	NS	SW8260B	4-Bromofluorobenzene	93	80	120
680-160798-1	OLF-G74-PORT1	11/12/18	WG	NS	SW8260B	Dibromofluoromethane	93	80	122
680-160798-1	OLF-G74-PORT1	11/12/18	WG	NS	SW8260B	Toluene-D8	95	80	120
680-160798-1	OLF-G74-PORT1	11/12/18	WG	FD	SW8260B	1,2-Dichloroethane-D4	102	73	131
680-160798-1	OLF-G74-PORT1	11/12/18	WG	FD	SW8260B	4-Bromofluorobenzene	88	80	120
680-160798-1	OLF-G74-PORT1	11/12/18	WG	FD	SW8260B	Dibromofluoromethane	110	80	122
680-160798-1	OLF-G74-PORT1	11/12/18	WG	FD	SW8260B	Toluene-D8	102	80	120
680-168493-1,-2	OLF-G74-PORT1	5/1/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-168493-1,-2	OLF-G74-PORT1	5/1/19	WG	NS	SW8260B	4-Bromofluorobenzene	92	80	120
680-168493-1,-2	OLF-G74-PORT1	5/1/19	WG	NS	SW8260B	Dibromofluoromethane	100	80	122
680-168493-1,-2	OLF-G74-PORT1	5/1/19	WG	NS	SW8260B	Toluene-D8	99	80	120
680-160798-1	OLF-G74-PORT2	11/12/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	93	73	131
680-160798-1	OLF-G74-PORT2	11/12/18	WG	NS	SW8260B	4-Bromofluorobenzene	92	80	120
680-160798-1	OLF-G74-PORT2	11/12/18	WG	NS	SW8260B	Dibromofluoromethane	94	80	122
680-160798-1	OLF-G74-PORT2	11/12/18	WG	NS	SW8260B	Toluene-D8	95	80	120
680-168493-1,-2	OLF-G74-PORT2	5/1/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	98	73	131
680-168493-1,-2	OLF-G74-PORT2	5/1/19	WG	NS	SW8260B	4-Bromofluorobenzene	95	80	120
680-168493-1,-2	OLF-G74-PORT2	5/1/19	WG	NS	SW8260B	Dibromofluoromethane	102	80	122
680-168493-1,-2	OLF-G74-PORT2	5/1/19	WG	NS	SW8260B	Toluene-D8	101	80	120
680-168493-1,-2	OLF-G74-PORT2	5/1/19	WG	FD	SW8260B	1,2-Dichloroethane-D4	91	73	131
680-168493-1,-2	OLF-G74-PORT2	5/1/19	WG	FD	SW8260B	4-Bromofluorobenzene	96	80	120
680-168493-1,-2	OLF-G74-PORT2	5/1/19	WG	FD	SW8260B	Dibromofluoromethane	96	80	122
680-168493-1,-2	OLF-G74-PORT2	5/1/19	WG	FD	SW8260B	Toluene-D8	97	80	120
680-160798-1	OLF-G74-PORT3	11/12/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	94	73	131
680-160798-1	OLF-G74-PORT3	11/12/18	WG	NS	SW8260B	4-Bromofluorobenzene	91	80	120
680-160798-1	OLF-G74-PORT3	11/12/18	WG	NS	SW8260B	Dibromofluoromethane	97	80	122
680-160798-1	OLF-G74-PORT3	11/12/18	WG	NS	SW8260B	Toluene-D8	94	80	120
680-168493-1,-2	OLF-G74-PORT3	5/1/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	99	73	131
680-168493-1,-2	OLF-G74-PORT3	5/1/19	WG	NS	SW8260B	4-Bromofluorobenzene	96	80	120
680-168493-1,-2	OLF-G74-PORT3	5/1/19	WG	NS	SW8260B	Dibromofluoromethane	101	80	122
680-168493-1,-2	OLF-G74-PORT3	5/1/19	WG	NS	SW8260B	Toluene-D8	101	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-160798-1	OLF-G74-PORT4	11/12/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	90	73	131
680-160798-1	OLF-G74-PORT4	11/12/18	WG	NS	SW8260B	4-Bromofluorobenzene	91	80	120
680-160798-1	OLF-G74-PORT4	11/12/18	WG	NS	SW8260B	Dibromofluoromethane	95	80	122
680-160798-1	OLF-G74-PORT4	11/12/18	WG	NS	SW8260B	Toluene-D8	96	80	120
680-168493-1,-2	OLF-G74-PORT4	5/1/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	97	73	131
680-168493-1,-2	OLF-G74-PORT4	5/1/19	WG	NS	SW8260B	4-Bromofluorobenzene	94	80	120
680-168493-1,-2	OLF-G74-PORT4	5/1/19	WG	NS	SW8260B	Dibromofluoromethane	104	80	122
680-168493-1,-2	OLF-G74-PORT4	5/1/19	WG	NS	SW8260B	Toluene-D8	101	80	120
680-160798-1	OLF-G74-PORT5	11/12/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	94	73	131
680-160798-1	OLF-G74-PORT5	11/12/18	WG	NS	SW8260B	4-Bromofluorobenzene	92	80	120
680-160798-1	OLF-G74-PORT5	11/12/18	WG	NS	SW8260B	Dibromofluoromethane	97	80	122
680-160798-1	OLF-G74-PORT5	11/12/18	WG	NS	SW8260B	Toluene-D8	95	80	120
680-168493-1,-2	OLF-G74-PORT5	5/1/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	98	73	131
680-168493-1,-2	OLF-G74-PORT5	5/1/19	WG	NS	SW8260B	4-Bromofluorobenzene	96	80	120
680-168493-1,-2	OLF-G74-PORT5	5/1/19	WG	NS	SW8260B	Dibromofluoromethane	102	80	122
680-168493-1,-2	OLF-G74-PORT5	5/1/19	WG	NS	SW8260B	Toluene-D8	101	80	120
680-161411-1	OLF-G75-S1	11/26/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	93	73	131
680-161411-1	OLF-G75-S1	11/26/18	WG	NS	SW8260B	4-Bromofluorobenzene	93	80	120
680-161411-1	OLF-G75-S1	11/26/18	WG	NS	SW8260B	Dibromofluoromethane	101	80	122
680-161411-1	OLF-G75-S1	11/26/18	WG	NS	SW8260B	Toluene-D8	108	80	120
680-169087-1	OLF-G75-S1	5/13/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	99	73	131
680-169087-1	OLF-G75-S1	5/13/19	WG	NS	SW8260B	4-Bromofluorobenzene	95	80	120
680-169087-1	OLF-G75-S1	5/13/19	WG	NS	SW8260B	Dibromofluoromethane	104	80	122
680-169087-1	OLF-G75-S1	5/13/19	WG	NS	SW8260B	Toluene-D8	102	80	120
680-161411-1	OLF-G75-S2	11/26/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	94	73	131
680-161411-1	OLF-G75-S2	11/26/18	WG	NS	SW8260B	4-Bromofluorobenzene	92	80	120
680-161411-1	OLF-G75-S2	11/26/18	WG	NS	SW8260B	Dibromofluoromethane	103	80	122
680-161411-1	OLF-G75-S2	11/26/18	WG	NS	SW8260B	Toluene-D8	106	80	120
680-169087-1	OLF-G75-S2	5/13/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	100	73	131
680-169087-1	OLF-G75-S2	5/13/19	WG	NS	SW8260B	4-Bromofluorobenzene	94	80	120
680-169087-1	OLF-G75-S2	5/13/19	WG	NS	SW8260B	Dibromofluoromethane	103	80	122
680-169087-1	OLF-G75-S2	5/13/19	WG	NS	SW8260B	Toluene-D8	101	80	120
680-161411-1	OLF-G75-S3	11/26/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	94	73	131
680-161411-1	OLF-G75-S3	11/26/18	WG	NS	SW8260B	4-Bromofluorobenzene	91	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-161411-1	OLF-G75-S3	11/26/18	WG	NS	SW8260B	Dibromofluoromethane	103	80	122
680-161411-1	OLF-G75-S3	11/26/18	WG	NS	SW8260B	Toluene-D8	108	80	120
680-169087-1	OLF-G75-S3	5/13/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	99	73	131
680-169087-1	OLF-G75-S3	5/13/19	WG	NS	SW8260B	4-Bromofluorobenzene	94	80	120
680-169087-1	OLF-G75-S3	5/13/19	WG	NS	SW8260B	Dibromofluoromethane	104	80	122
680-169087-1	OLF-G75-S3	5/13/19	WG	NS	SW8260B	Toluene-D8	102	80	120
680-169087-1	OLF-G75-S3	5/13/19	WG	FD	SW8260B	1,2-Dichloroethane-D4	99	73	131
680-169087-1	OLF-G75-S3	5/13/19	WG	FD	SW8260B	4-Bromofluorobenzene	95	80	120
680-169087-1	OLF-G75-S3	5/13/19	WG	FD	SW8260B	Dibromofluoromethane	104	80	122
680-169087-1	OLF-G75-S3	5/13/19	WG	FD	SW8260B	Toluene-D8	101	80	120
680-161411-1	OLF-G75-S4	11/27/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-161411-1	OLF-G75-S4	11/27/18	WG	NS	SW8260B	4-Bromofluorobenzene	91	80	120
680-161411-1	OLF-G75-S4	11/27/18	WG	NS	SW8260B	Dibromofluoromethane	104	80	122
680-161411-1	OLF-G75-S4	11/27/18	WG	NS	SW8260B	Toluene-D8	107	80	120
680-169087-1	OLF-G75-S4	5/14/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	115	73	131
680-169087-1	OLF-G75-S4	5/14/19	WG	NS	SW8260B	4-Bromofluorobenzene	83	80	120
680-169087-1	OLF-G75-S4	5/14/19	WG	NS	SW8260B	Dibromofluoromethane	105	80	122
680-169087-1	OLF-G75-S4	5/14/19	WG	NS	SW8260B	Toluene-D8	102	80	120
680-161411-1	OLF-G75-S5	11/27/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	94	73	131
680-161411-1	OLF-G75-S5	11/27/18	WG	NS	SW8260B	4-Bromofluorobenzene	93	80	120
680-161411-1	OLF-G75-S5	11/27/18	WG	NS	SW8260B	Dibromofluoromethane	104	80	122
680-161411-1	OLF-G75-S5	11/27/18	WG	NS	SW8260B	Toluene-D8	107	80	120
680-169087-1	OLF-G75-S5	5/14/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	114	73	131
680-169087-1	OLF-G75-S5	5/14/19	WG	NS	SW8260B	4-Bromofluorobenzene	82	80	120
680-169087-1	OLF-G75-S5	5/14/19	WG	NS	SW8260B	Dibromofluoromethane	104	80	122
680-169087-1	OLF-G75-S5	5/14/19	WG	NS	SW8260B	Toluene-D8	102	80	120
680-161411-1	OLF-G75-S6	11/27/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	96	73	131
680-161411-1	OLF-G75-S6	11/27/18	WG	NS	SW8260B	4-Bromofluorobenzene	94	80	120
680-161411-1	OLF-G75-S6	11/27/18	WG	NS	SW8260B	Dibromofluoromethane	103	80	122
680-161411-1	OLF-G75-S6	11/27/18	WG	NS	SW8260B	Toluene-D8	107	80	120
680-169087-1	OLF-G75-S6	5/14/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	115	73	131
680-169087-1	OLF-G75-S6	5/14/19	WG	NS	SW8260B	4-Bromofluorobenzene	82	80	120
680-169087-1	OLF-G75-S6	5/14/19	WG	NS	SW8260B	Dibromofluoromethane	105	80	122
680-169087-1	OLF-G75-S6	5/14/19	WG	NS	SW8260B	Toluene-D8	102	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-160798-1	OLF-G77	11/13/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	104	73	131
680-160798-1	OLF-G77	11/13/18	WG	NS	SW8260B	4-Bromofluorobenzene	89	80	120
680-160798-1	OLF-G77	11/13/18	WG	NS	SW8260B	Dibromofluoromethane	111	80	122
680-160798-1	OLF-G77	11/13/18	WG	NS	SW8260B	Toluene-D8	102	80	120
680-160798-1	OLF-G77	11/13/18	WG	FD	SW8260B	1,2-Dichloroethane-D4	121	73	131
680-160798-1	OLF-G77	11/13/18	WG	FD	SW8260B	4-Bromofluorobenzene	89	80	120
680-160798-1	OLF-G77	11/13/18	WG	FD	SW8260B	Dibromofluoromethane	120	80	122
680-160798-1	OLF-G77	11/13/18	WG	FD	SW8260B	Toluene-D8	97	80	120
680-168800-1	OLF-G77	5/6/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	99	73	131
680-168800-1	OLF-G77	5/6/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	114	73	131
680-168800-1	OLF-G77	5/6/19	WG	NS	SW8260B	4-Bromofluorobenzene	97	80	120
680-168800-1	OLF-G77	5/6/19	WG	NS	SW8260B	4-Bromofluorobenzene	99	80	120
680-168800-1	OLF-G77	5/6/19	WG	NS	SW8260B	Dibromofluoromethane	96	80	122
680-168800-1	OLF-G77	5/6/19	WG	NS	SW8260B	Dibromofluoromethane	102	80	122
680-168800-1	OLF-G77	5/6/19	WG	NS	SW8260B	Toluene-D8	102	80	120
680-168800-1	OLF-G77	5/6/19	WG	NS	SW8260B	Toluene-D8	103	80	120
680-168800-1	OLF-G77	5/6/19	WG	FD	SW8260B	1,2-Dichloroethane-D4	100	73	131
680-168800-1	OLF-G77	5/6/19	WG	FD	SW8260B	1,2-Dichloroethane-D4	114	73	131
680-168800-1	OLF-G77	5/6/19	WG	FD	SW8260B	4-Bromofluorobenzene	100	80	120
680-168800-1	OLF-G77	5/6/19	WG	FD	SW8260B	4-Bromofluorobenzene	97	80	120
680-168800-1	OLF-G77	5/6/19	WG	FD	SW8260B	Dibromofluoromethane	102	80	122
680-168800-1	OLF-G77	5/6/19	WG	FD	SW8260B	Dibromofluoromethane	94	80	122
680-168800-1	OLF-G77	5/6/19	WG	FD	SW8260B	Toluene-D8	102	80	120
680-168800-1	OLF-G77	5/6/19	WG	FD	SW8260B	Toluene-D8	103	80	120
680-160798-1	OLF-G78	11/12/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	100	73	131
680-160798-1	OLF-G78	11/12/18	WG	NS	SW8260B	4-Bromofluorobenzene	89	80	120
680-160798-1	OLF-G78	11/12/18	WG	NS	SW8260B	Dibromofluoromethane	104	80	122
680-160798-1	OLF-G78	11/12/18	WG	NS	SW8260B	Toluene-D8	104	80	120
680-168800-1	OLF-G78	5/6/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	99	73	131
680-168800-1	OLF-G78	5/6/19	WG	NS	SW8260B	4-Bromofluorobenzene	93	80	120
680-168800-1	OLF-G78	5/6/19	WG	NS	SW8260B	Dibromofluoromethane	102	80	122
680-168800-1	OLF-G78	5/6/19	WG	NS	SW8260B	Toluene-D8	100	80	120
680-160919-1	PPMP-229-GP12	11/14/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-160919-1	PPMP-229-GP12	11/14/18	WG	NS	SW8260B	4-Bromofluorobenzene	100	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-160919-1	PPMP-229-GP12	11/14/18	WG	NS	SW8260B	Dibromofluoromethane	101	80	122
680-160919-1	PPMP-229-GP12	11/14/18	WG	NS	SW8260B	Toluene-D8	100	80	120
680-169087-1	PPMP-229-GP12	5/14/19	WG	NS	SW8260B	1,2-Dichloroethane-D4	97	73	131
680-169087-1	PPMP-229-GP12	5/14/19	WG	NS	SW8260B	4-Bromofluorobenzene	93	80	120
680-169087-1	PPMP-229-GP12	5/14/19	WG	NS	SW8260B	Dibromofluoromethane	102	80	122
680-169087-1	PPMP-229-GP12	5/14/19	WG	NS	SW8260B	Toluene-D8	99	80	120
680-160798-1	TB491	11/14/18	W	TB	SW8260B	1,2-Dichloroethane-D4	96	73	131
680-160798-1	TB491	11/14/18	W	TB	SW8260B	4-Bromofluorobenzene	93	80	120
680-160798-1	TB491	11/14/18	W	TB	SW8260B	Dibromofluoromethane	98	80	122
680-160798-1	TB491	11/14/18	W	TB	SW8260B	Toluene-D8	95	80	120
680-160798-1	TB492	11/14/01	W	TB	SW8260B	1,2-Dichloroethane-D4	94	73	131
680-160798-1	TB492	11/14/01	W	TB	SW8260B	4-Bromofluorobenzene	93	80	120
680-160798-1	TB492	11/14/01	W	TB	SW8260B	Dibromofluoromethane	102	80	122
680-160798-1	TB492	11/14/01	W	TB	SW8260B	Toluene-D8	108	80	120
680-160798-1	TB493	11/14/18	W	TB	SW8260B	1,2-Dichloroethane-D4	98	73	131
680-160798-1	TB493	11/14/18	W	TB	SW8260B	4-Bromofluorobenzene	90	80	120
680-160798-1	TB493	11/14/18	W	TB	SW8260B	Dibromofluoromethane	109	80	122
680-160798-1	TB493	11/14/18	W	TB	SW8260B	Toluene-D8	105	80	120
680-160919-1	TB 494	11/16/18	W	TB	SW8260B	1,2-Dichloroethane-D4	92	73	131
680-160919-1	TB 494	11/16/18	W	TB	SW8260B	4-Bromofluorobenzene	99	80	120
680-160919-1	TB 494	11/16/18	W	TB	SW8260B	Dibromofluoromethane	102	80	122
680-160919-1	TB 494	11/16/18	W	TB	SW8260B	Toluene-D8	100	80	120
680-161061-1	TB495	11/20/18	W	TB	SW8260B	1,2-Dichloroethane-D4	95	73	131
680-161061-1	TB495	11/20/18	W	TB	SW8260B	4-Bromofluorobenzene	94	80	120
680-161061-1	TB495	11/20/18	W	TB	SW8260B	Dibromofluoromethane	97	80	122
680-161061-1	TB495	11/20/18	W	TB	SW8260B	Toluene-D8	99	80	120
680-161411-1	MB093	11/28/18	W	WS	SW8260B	1,2-Dichloroethane-D4	102	73	131
680-161411-1	MB093	11/28/18	W	WS	SW8260B	4-Bromofluorobenzene	107	80	120
680-161411-1	MB093	11/28/18	W	WS	SW8260B	Dibromofluoromethane	101	80	122
680-161411-1	MB093	11/28/18	W	WS	SW8260B	Toluene-D8	108	80	120
680-161411-1	TB496	11/28/18	W	TB	SW8260B	1,2-Dichloroethane-D4	106	73	131
680-161411-1	TB496	11/28/18	W	TB	SW8260B	4-Bromofluorobenzene	111	80	120
680-161411-1	TB496	11/28/18	W	TB	SW8260B	Dibromofluoromethane	107	80	122
680-161411-1	TB496	11/28/18	W	TB	SW8260B	Toluene-D8	107	80	120

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-168493-1,-2	TB527	5/2/19	W	TB	SW8260B	1,2-Dichloroethane-D4	91	73	131
680-168493-1,-2	TB527	5/2/19	W	TB	SW8260B	4-Bromofluorobenzene	95	80	120
680-168493-1,-2	TB527	5/2/19	W	TB	SW8260B	Dibromofluoromethane	96	80	122
680-168493-1,-2	TB527	5/2/19	W	TB	SW8260B	Toluene-D8	97	80	120
680-168493-1,-2	TB528	5/2/19	W	TB	SW8260B	1,2-Dichloroethane-D4	91	73	131
680-168493-1,-2	TB528	5/2/19	W	TB	SW8260B	4-Bromofluorobenzene	96	80	120
680-168493-1,-2	TB528	5/2/19	W	TB	SW8260B	Dibromofluoromethane	96	80	122
680-168493-1,-2	TB528	5/2/19	W	TB	SW8260B	Toluene-D8	98	80	120
680-168798-1	TB529	5/8/19	W	TB	SW8260B	1,2-Dichloroethane-D4	100	73	131
680-168798-1	TB529	5/8/19	W	TB	SW8260B	4-Bromofluorobenzene	97	80	120
680-168798-1	TB529	5/8/19	W	TB	SW8260B	Dibromofluoromethane	106	80	122
680-168798-1	TB529	5/8/19	W	TB	SW8260B	Toluene-D8	103	80	120
680-168800-1	TB530	5/8/19	W	TB	SW8260B	1,2-Dichloroethane-D4	98	73	131
680-168800-1	TB530	5/8/19	W	TB	SW8260B	4-Bromofluorobenzene	96	80	120
680-168800-1	TB530	5/8/19	W	TB	SW8260B	Dibromofluoromethane	103	80	122
680-168800-1	TB530	5/8/19	W	TB	SW8260B	Toluene-D8	103	80	120
680-169087-1	TB532	5/15/19	W	TB	SW8260B	1,2-Dichloroethane-D4	104	73	131
680-169087-1	TB532	5/15/19	W	TB	SW8260B	4-Bromofluorobenzene	101	80	120
680-169087-1	TB532	5/15/19	W	TB	SW8260B	Dibromofluoromethane	102	80	122
680-169087-1	TB532	5/15/19	W	TB	SW8260B	Toluene-D8	104	80	120
17K114	OLF-G78	11/13/17	WG	NS	SW8260B	4-Bromofluorobenzene	98	73	129
17K114	OLF-G78	11/13/17	WG	NS	SW8260B	Toluene-D8	99	75	122
680-152646-1	OLF-G78	5/16/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	101	73	131
680-152646-1	OLF-G78	5/16/18	WG	NS	SW8260B	4-Bromofluorobenzene	100	80	120
680-152646-1	OLF-G78	5/16/18	WG	NS	SW8260B	Dibromofluoromethane	106	80	1220
680-152646-1	OLF-G78	5/16/18	WG	NS	SW8260B	Toluene-D8	102	80	120
17K094	PPMP-229-GP12	11/9/17	WG	NS	SW8260B	1,2-Dichloroethane-D4	107	63	132
17K094	PPMP-229-GP12	11/9/17	WG	NS	SW8260B	4-Bromofluorobenzene	100	73	129
17K094	PPMP-229-GP12	11/9/17	WG	NS	SW8260B	Toluene-D8	97	75	122
680-152646-1	PPMP-229-GP12	5/17/18	WG	NS	SW8260B	1,2-Dichloroethane-D4	103	73	131
680-152646-1	PPMP-229-GP12	5/17/18	WG	NS	SW8260B	4-Bromofluorobenzene	101	80	120
680-152646-1	PPMP-229-GP12	5/17/18	WG	NS	SW8260B	Dibromofluoromethane	107	80	1220
680-152646-1	PPMP-229-GP12	5/17/18	WG	NS	SW8260B	Toluene-D8	101	80	120
680-153275-1	Equipment Blank	5/31/18	W	EB	SW8260B	1,2-Dichloroethane-D4	86	73	131

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
680-153275-1	Equipment Blank	5/31/18	W	EB	SW8260B	4-Bromofluorobenzene	104	80	120
680-153275-1	Equipment Blank	5/31/18	W	EB	SW8260B	Dibromofluoromethane	96	80	122
680-153275-1	Equipment Blank	5/31/18	W	EB	SW8260B	Toluene-D8	107	80	120
17H100	Equipment Blank	8/15/17	W	EB	SW8260B	1,2-Dichloroethane-D4	112	63	132
17H100	Equipment Blank	8/15/17	W	EB	SW8260B	4-Bromofluorobenzene	97.6	73	129
17H100	Equipment Blank	8/15/17	W	EB	SW8260B	Toluene-D8	102	75	122
17K170	Equipment Blank	11/16/17	W	EB	SW8260B	1,2-Dichloroethane-D4	109	63	132
17K170	Equipment Blank	11/16/17	W	EB	SW8260B	4-Bromofluorobenzene	106	73	129
17K170	Equipment Blank	11/16/17	W	EB	SW8260B	Toluene-D8	99	75	122
18B141	Equipment Blank	2/22/18	W	EB	SW8260B	1,2-Dichloroethane-D4	109	63	132
18B141	Equipment Blank	2/22/18	W	EB	SW8260B	4-Bromofluorobenzene	110	73	129
18B141	Equipment Blank	2/22/18	W	EB	SW8260B	Toluene-D8	106	75	122
17H090	TRIP BLANK	8/14/17	W	TB	SW8260B	1,2-Dichloroethane-D4	106	63	132
17H090	TRIP BLANK	8/14/17	W	TB	SW8260B	1,2-Dichloroethane-D4	105	63	132
17H090	TRIP BLANK	8/14/17	W	TB	SW8260B	4-Bromofluorobenzene	99.6	73	129
17H090	TRIP BLANK	8/14/17	W	TB	SW8260B	4-Bromofluorobenzene	100	73	129
17H090	TRIP BLANK	8/14/17	W	TB	SW8260B	Toluene-D8	104	75	122
17H090	TRIP BLANK	8/14/17	W	TB	SW8260B	Toluene-D8	104	75	122
17H100	TRIP BLANK	8/15/17	W	TB	SW8260B	1,2-Dichloroethane-D4	107	63	132
17H100	TRIP BLANK	8/15/17	W	TB	SW8260B	4-Bromofluorobenzene	99.3	73	129
17H100	TRIP BLANK	8/15/17	W	TB	SW8260B	Toluene-D8	103	75	122
17K072	TRIP BLANK	11/8/17	W	TB	SW8260B	1,2-Dichloroethane-D4	108	63	132
17K072	TRIP BLANK	11/8/17	W	TB	SW8260B	1,2-Dichloroethane-D4	108	63	132
17K072	TRIP BLANK	11/8/17	W	TB	SW8260B	4-Bromofluorobenzene	98	73	129
17K072	TRIP BLANK	11/8/17	W	TB	SW8260B	4-Bromofluorobenzene	100	73	129
17K072	TRIP BLANK	11/8/17	W	TB	SW8260B	Toluene-D8	97	75	122
17K072	TRIP BLANK	11/8/17	W	TB	SW8260B	Toluene-D8	99	75	122
17K094	TRIP BLANK	11/9/17	W	TB	SW8260B	1,2-Dichloroethane-D4	108	63	132
17K094	TRIP BLANK	11/9/17	W	TB	SW8260B	4-Bromofluorobenzene	99	73	129
17K094	TRIP BLANK	11/9/17	W	TB	SW8260B	Toluene-D8	100	75	122
17K114	TRIP BLANK	11/13/17	W	TB	SW8260B	1,2-Dichloroethane-D4	108	63	132
17K114	TRIP BLANK	11/13/17	W	TB	SW8260B	4-Bromofluorobenzene	98	73	129
17K114	TRIP BLANK	11/13/17	W	TB	SW8260B	Toluene-D8	99	75	122
17K170	TRIP BLANK	11/16/17	W	TB	SW8260B	1,2-Dichloroethane-D4	113	63	132

Table 4-8: Summary of Surrogate Recoveries
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Delivery Group	Station Name	Sample Date	Matrix	QC Code	Method	Parameter Name	%R	LCL	UCL
17K170	TRIP BLANK	11/16/17	W	TB	SW8260B	4-Bromofluorobenzene	104	73	129
17K170	TRIP BLANK	11/16/17	W	TB	SW8260B	Toluene-D8	99	75	122
18B129	TRIP BLANK	2/20/18	W	TB	SW8260B	1,2-Dichloroethane-D4	119	63	132
18B129	TRIP BLANK	2/20/18	W	TB	SW8260B	4-Bromofluorobenzene	105	73	129
18B129	TRIP BLANK	2/20/18	W	TB	SW8260B	Toluene-D8	104	75	122
18B141	TRIP BLANK	2/22/18	W	TB	SW8260B	1,2-Dichloroethane-D4	104	63	132
18B141	TRIP BLANK	2/22/18	W	TB	SW8260B	4-Bromofluorobenzene	121	73	129
18B141	TRIP BLANK	2/22/18	W	TB	SW8260B	Toluene-D8	110	75	122
680-152805-1	TRIP BLANK	5/21/18	W	TB	8260B	1,2-Dichloroethane-D4	101	73	131
680-152805-1	TRIP BLANK	5/21/18	W	TB	8260B	4-Bromofluorobenzene	98	80	120
680-152805-1	TRIP BLANK	5/21/18	W	TB	8260B	Dibromofluoromethane	104	80	1220
680-152805-1	TRIP BLANK	5/21/18	W	TB	8260B	Toluene-D8	102	80	120

Notes:

LCL = lower control limit

%R = percent recovery

QC = quality control

UCL = upper control limit

W = Water

WG = ground water

Blue text, bold and outlined = Greater than acceptance limits.

Bold and shaded = Less than acceptance limits

Table 4-9: Summary of Detections in Blanks
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

Laboratory Sample ID	Station Name	Sample Date	QC Code	Method	Parameter Name	Result	Flag	Units
680-168493-7	TRIP BLANK (TB527)	5/2/19	TB	SW8260B	Trans-1,2-Dichloroethene	0.45	J	µg/L
680-168493-9	TRIP BLANK (TB528)	5/2/19	TB	SW8260B	Trans-1,2-Dichloroethene	0.55	J	µg/L
680-169087-14	TRIP BLANK (TB532)	5/15/19	TB	SW8260B	Acetone	23		µg/L
MB 680-548796/9	LAB QC	11/26/18	MB	SW8260B	1,3-Dichlorobenzene	0.453	J	µg/L
MB 680-548796/9	LAB QC	11/26/18	MB	SW8260B	Carbon Disulfide	1.07	J	µg/L
MB 680-548796/9	LAB QC	11/26/18	MB	SW8260B	Trans-1,2-Dichloroethene	0.48	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	1,1-Dichloroethene	0.631	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	1,1-Dichloropropene	0.577	J	µg/L
MB 680-570605/10	LAB QC	5/16/19	MB	SW8260B	1,1-Dichloropropene	0.368	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	1,2,3-Trichlorobenzene	2.88	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	1,2,4-Trichlorobenzene	2.65	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	1,2,4-Trimethylbenzene	0.683	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	1,2-Dichlorobenzene	0.699	J	µg/L
MB 680-570605/10	LAB QC	5/16/19	MB	SW8260B	1,2-Dichlorobenzene	0.381	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	1,3,5-Trimethylbenzene	0.787	J	µg/L
MB 680-570605/10	LAB QC	5/16/19	MB	SW8260B	1,3,5-Trimethylbenzene	0.435	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	1,3-Dichlorobenzene	0.886	J	µg/L
MB 680-570605/10	LAB QC	5/16/19	MB	SW8260B	1,3-Dichlorobenzene	0.469	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	1,4-Dichlorobenzene	1.01		µg/L
MB 680-570605/10	LAB QC	5/16/19	MB	SW8260B	1,4-Dichlorobenzene	0.466	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	4-Chlorotoluene	0.683	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Carbon Disulfide	3.13		µg/L
MB 680-570605/10	LAB QC	5/16/19	MB	SW8260B	Carbon Disulfide	1.92	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Cis-1,2-Dichloroethene	0.439	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Dibromomethane	0.366	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Ethylbenzene	0.366	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Hexachlorobutadiene	4.12	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Isopropyl Benzene (Cumene)	0.702	J	µg/L

Table 4-9: Summary of Detections in Blanks
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama

MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	m,p-Xylene	0.389	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	N-Butylbenzene	1.94		µg/L
MB 680-570605/10	LAB QC	5/16/19	MB	SW8260B	N-Butylbenzene	0.644	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	N-Propylbenzene	0.963	J	µg/L
MB 680-570605/10	LAB QC	5/16/19	MB	SW8260B	N-Propylbenzene	0.502	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	O-Xylene	0.309	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	P-Isopropyltoluene (Cymene)	1.2		µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Sec-Butylbenzene	1.12		µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Styrene	0.348	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Tert-Butylbenzene	0.946	J	µg/L
MB 680-570605/10	LAB QC	5/16/19	MB	SW8260B	Tert-Butylbenzene	0.457	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Trans-1,2-Dichloroethene	1.32		µg/L
MB 680-570605/10	LAB QC	5/16/19	MB	SW8260B	Trans-1,2-Dichloroethene	0.745	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Trans-1,4-Dichloro-2-Butene	0.639	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Trichloroethene	0.652	J	µg/L
MB 680-570450/20	LAB QC	5/15/19	MB	SW8260B	Xylenes (Total)	0.698	J	µg/L
MB 680-571152/9	LAB QC	5/21/19	MB	SW8260B	Cis-1,2-Dichloroethene	0.52	J	µg/L
MB 680-572047/10	LAB QC	5/28/19	MB	SW8260B	Naphthalene	4.64	J	µg/L

Notes:

EB = Equipment blank

ID = Identification

MB = Method blank

QC = Quality control

TB = Trip blank

µg/L = micrograms per liter

mg/L = milligrams per liter

Flag:

J = Result is estimated; result is less than the reporting limit and greater than the method detection limit.

**Table 5-1: Reporting Limits and Method Detection Limits Compared to RSLs and RBTLs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama**

Matrix	Method	Parameter Name	MDL	RL	Units	PSV (RSL)	GS RBTL
TALSAV							
WG	SW8260B	1,1,1,2-Tetrachloroethane	0.37	1	µg/L	0.57	NA
WG	SW8260B	1,1,1-Trichloroethane (M)	0.37	1	µg/L	200	NA
WG	SW8260B	1,1,2,2-Tetrachloroethane	0.62	1	µg/L	0.076	13.6
WG	SW8260B	1,1,2-Trichloroethane (M)	0.33	1	µg/L	5	50.2
WG	SW8260B	1,1-Dichloroethane	0.38	1	µg/L	2.8	NA
WG	SW8260B	1,1-Dichloroethene (M)	0.36	1	µg/L	7	NA
WG	SW8260B	1,1-Dichloropropene	0.34	1	µg/L	NA	NA
WG	SW8260B	1,2,3-Trichlorobenzene	2.5	5	µg/L	0.7	NA
WG	SW8260B	1,2,3-Trichloropropane	0.39	1	µg/L	0.00075	NA
WG	SW8260B	1,2,4-Trichlorobenzene (M)	2.5	5	µg/L	70	NA
WG	SW8260B	1,2,4-Trimethylbenzene	0.47	1	µg/L	5.6	NA
WG	SW8260B	1,2-Dibromo-3-Chloropropane (M)	1.1	5	µg/L	0.2	NA
WG	SW8260B	1,2-Dibromoethane (M)	0.44	1	µg/L	0.05	NA
WG	SW8260B	1,2-Dichlorobenzene (M)	0.37	1	µg/L	600	NA
WG	SW8260B	1,2-Dichloroethane (M)	0.5	1	µg/L	5	30.8
WG	SW8260B	1,2-Dichloropropane (M)	0.67	1	µg/L	5	NA
WG	SW8260B	1,3,5-Trimethylbenzene	0.31	1	µg/L	5.5	NA
WG	SW8260B	1,3-Dichlorobenzene	0.43	1	µg/L	NA	NA
WG	SW8260B	1,3-Dichloropropane	0.34	1	µg/L	37	NA
WG	SW8260B	1,4-Dichlorobenzene (M)	0.46	1	µg/L	75	NA
WG	SW8260B	2,2-Dichloropropane	0.37	1	µg/L	NA	NA
WG	SW8260B	2-Butanone (MEK)	3.4	10	µg/L	560	NA
WG	SW8260B	2-Chlorotoluene	0.27	1	µg/L	0.24	NA
WG	SW8260B	2-Hexanone	2	10	µg/L	3.8	NA
WG	SW8260B	4-Chlorotoluene	0.45	1	µg/L	25	NA
WG	SW8260B	4-Methyl-2-Pentanone (MIBK)	2.1	10	µg/L	630	NA
WG	SW8260B	Acetone	7	10	µg/L	1400	NA
WG	SW8260B	Benzene (M)	0.43	1	µg/L	5	47.9
WG	SW8260B	Bromobenzene	0.5	1	µg/L	6.2	NA
WG	SW8260B	Bromochloromethane	0.45	1	µg/L	8.3	NA
WG	SW8260B	Bromodichloromethane (M)	0.44	1	µg/L	80	NA
WG	SW8260B	Bromoform (M)	0.43	1	µg/L	80	NA
WG	SW8260B	Bromomethane	2.5	5	µg/L	0.75	NA
WG	SW8260B	Carbon Disulfide	1	2	µg/L	81	NA
WG	SW8260B	Carbon Tetrachloride (M)	0.33	1	µg/L	5	NA
WG	SW8260B	Chlorobenzene (M)	0.26	1	µg/L	100	NA
WG	SW8260B	Chloroethane	2.5	5	µg/L	2100	NA
WG	SW8260B	Chloroform (M)	0.5	1	µg/L	80	NA
WG	SW8260B	Chloromethane	0.4	1	µg/L	19	NA
WG	SW8260B	Cis-1,2-Dichloroethene (M)	0.41	1	µg/L	70	991
WG	SW8260B	Cis-1,3-Dichloropropene	0.4	1	µg/L	0.47	NA
WG	SW8260B	Dibromochloromethane	0.32	1	µg/L	80	NA
WG	SW8260B	Dibromomethane	0.35	1	µg/L	0.83	NA
WG	SW8260B	Dichlorofluoromethane	0.6	2	µg/L	20	NA
WG	SW8260B	Ethylbenzene (M)	0.33	1	µg/L	700	NA
WG	SW8260B	Hexachlorobutadiene	2.5	5	µg/L	0.14	NA
WG	SW8260B	Isopropyl Benzene (Cumene)	0.35	1	µg/L	0.45	NA

**Table 5-1: Reporting Limits and Method Detection Limits Compared to RSLs and RBTLs
Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield Parcel 229(7)
McClellan, Annison, Alabama**

Matrix	Method	Parameter Name	MDL	RL	Units	PSV (RSL)	GS RBTL
WG	SW8260B	Methylene Chloride (M)	2.5	5	µg/L	5	NA
WG	SW8260B	MTBE	0.3	10	µg/L	14	NA
WG	SW8260B	Naphthalene	2.5	5	µg/L	0.17	1590
WG	SW8260B	N-Butylbenzene	0.47	1	µg/L	100	NA
WG	SW8260B	N-Propylbenzene	0.38	1	µg/L	66	NA
WG	SW8260B	P-Isopropyltoluene (Cymene)	0.2	1	µg/L	NA	NA
WG	SW8260B	sec-Butylbenzene	0.45	1	µg/L	200	NA
WG	SW8260B	Styrene (M)	0.27	1	µg/L	100	NA
WG	SW8260B	tert-Butylbenzene	0.45	1	µg/L	69	NA
WG	SW8260B	Tetrachloroethene (M)	0.74	1	µg/L	5	4.43
WG	SW8260B	Toluene (M)	0.48	1	µg/L	1000	NA
WG	SW8260B	Trans-1,2-Dichloroethene (M)	0.37	1	µg/L	100	NA
WG	SW8260B	Trans-1,3-Dichloropropene	0.42	1	µg/L	0.47	NA
WG	SW8260B	Trichloroethene (M)	0.48	1	µg/L	5	205
WG	SW8260B	Trichlorofluoromethane	0.42	1	µg/L	520	NA
WG	SW8260B	Vinyl Acetate	0.81	2	µg/L	41	NA
WG	SW8260B	Vinyl Chloride (M)	0.5	0.8	µg/L	2	3.86
WG	SW8260B	Xylenes (Total) (M)	0.23	3	µg/L	10000	NA
WG	RSK-175	Ethane	0.55	1.1	µg/L	NA	NA
WG	RSK-175	Ethene	0.5	1	µg/L	NA	NA
WG	RSK-175	Methane	0.29	0.58	µg/L	NA	NA
WG	SW6010B	Sodium	480	1000	µg/L	NA	NA
WG	SW9056	Bromide	0.2	0.5	mg/L	NA	NA
WG	SW9056	Chloride	0.2	0.5	mg/L	NA	NA
WG	SW9056	Nitrate-N (M)	0.023	0.05	mg/L	10000	NA
WG	SW9058	Sulfate	0.4	1	mg/L	NA	NA
WG	SW9060	TOC	0.5	1	mg/L	NA	NA

Notes:

MDL = Method detection limit

µg/L = micrograms per liter

NA = not applicable

PSV (RSL) = primary screening value (regional screening levels, EPA June 2017, TR=1E-06 and THQ-0.1)
or (M) Maximum Contamination level (EPA June 2017, TR=1E-06 and THQ-0.1))

RL = Reporting limit

WG = Groundwater

Indicates the limit is greater than the PSV (RSL)

Appendix D
Analytical Data

Table D.1
On-Site Groundwater Analytical Results for Year 1

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G06	OLF-G06	OLF-G06	OLF-G07	OLF-G07	OLF-G07	OLF-G07	OLF-G07	OLF-G07	OLF-G08	OLF-G08	OLF-G20	OLF-G20	OLF-G20	OLF-G20	OLF-G20	OLF-G20	OLF-G20	OLF-G42	OLF-G42	OLF-G42
Date	8/14/17	5/17/18	5/6/19	8/10/17	11/13/17	2/21/18	5/16/18	11/13/18	5/7/19	11/14/18	5/7/19	8/10/17	11/13/17	2/20/18	5/23/18	11/13/18	5/7/19	5/23/18	11/19/18	5/13/19	
VOC (µg/L)																					
1,1,1,2-Tetrachloroethane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,1,1-Trichloroethane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,1,2,2-Tetrachloroethane	--	--	--	--	25	--	51	29 F1 (J)	96	--	--	--	< 1	--	< 1	1.3	< 1	< 1	< 1	< 1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	--	--	< 1	--	--	< 1	< 1	--	--	--	< 1	--	--	< 1	< 1	--	< 1	< 1	
1,1,2-Trichloroethane	--	--	--	--	0.4 J	--	0.61 J	< 1	1.2	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,1-Dichloroethane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	0.48 J	3.4	< 1	
1,1-Dichloroethene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	2.7	--	2.6	3.4	1.9	< 1	< 1	< 1	
1,1-Dichloropropene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,2,3-Trichlorobenzene	--	--	--	--	< 1	--	< 5	< 5	< 5	--	--	--	< 1	--	< 5	< 5	< 5	< 5	< 5	< 5	
1,2,3-Trichloropropane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,2,4-Trichlorobenzene	--	--	--	--	< 1	--	< 5	< 5	< 5	--	--	--	< 1	--	< 5	< 5	< 5	< 5	< 5	< 5	
1,2,4-Trimethylbenzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,2-Dibromo-3-Chloropropane	--	--	--	--	< 2	--	< 5	< 5	< 5	--	--	--	< 2	--	< 5	< 5	< 5	< 5	< 5	< 5	
1,2-Dibromoethane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,2-Dichlorobenzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,2-Dichloroethane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	0.55 J	--	0.52 J	0.54 J	< 1	< 1	1.6	< 1	
1,2-Dichloropropane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,3,5-Trimethylbenzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,3-Dichlorobenzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,3-Dichloropropane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
1,4-Dichlorobenzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	0.32 J	--	< 1	< 1	< 1	< 1	0.77 J	< 1	
2,2-Dichloropropane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
2-Butanone (MEK)	--	--	--	--	< 10	--	< 10	< 10	< 10	--	--	--	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	
2-Chlorotoluene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
2-Hexanone	--	--	--	--	< 10	--	< 10	< 10	< 10	--	--	--	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	
4-Chlorotoluene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
4-Methyl-2-Pentanone (MIBK)	--	--	--	--	< 10	--	< 10	< 10	< 10	--	--	--	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	
Acetone	--	--	--	--	< 10	--	< 10	< 10	< 10	--	--	--	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	
Acrylonitrile	--	--	--	--	< 10	--	--	< 20	< 20	--	--	--	< 10	--	--	< 20	< 20	--	< 20	< 20	
Benzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	0.66 J	--	0.52 J	0.57 J	0.46 J	< 1	1.7	< 1	
Bromobenzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
Bromochloromethane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
Bromodichloromethane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
Bromoform	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
Bromomethane	--	--	--	--	< 2	--	< 5	< 5	< 5	--	--	--	< 2	--	< 5	< 5	< 5	< 5	< 5	< 5	
Carbon Disulfide	--	--	--	--	< 1	--	< 2	< 2	< 2	--	--	--	< 1	--	< 2	< 2	< 2	< 2	< 2	< 2	
Carbon Tetrachloride	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
Chlorobenzene	--	--	--	--	0.3 J	--	< 1	< 1	< 1	--	--	--	2.7	--	2.1	2.2	1.5	< 1	0.51 J	< 1	
Chloroethane	--	--	--	--	< 2	--	< 5	< 5	< 5	--	--	--	0.57 J	--	< 5	< 5	< 5	< 5	< 5	< 5	
Chloroform	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
Chloromethane	--	--	--	--	< 2	--	< 1	< 1	< 1	--	--	--	< 2	--	< 1	< 1	< 1	< 1	< 1	< 1	
Cis-1,2-Dichloroethene	--	--	--	--	2.4	--	4	2.2	6.6	--	--	--	17	--	9.3	8.6	5.9 B	1	13	2.8	
Cis-1,3-Dichloropropene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	
Dibromochloromethane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G06	OLF-G06	OLF-G06	OLF-G07	OLF-G07	OLF-G07	OLF-G07	OLF-G07	OLF-G07	OLF-G08	OLF-G08	OLF-G20	OLF-G20	OLF-G20	OLF-G20	OLF-G20	OLF-G20	OLF-G42	OLF-G42	OLF-G42
Dibromomethane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	--	--	--	--	< 2	--	< 1	< 1	< 1	--	--	--	< 2	--	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	--	--	--	--	< 1	--	< 5	< 5	< 5	--	--	--	< 1	--	< 5	< 5	< 5	< 5	< 5	< 5
Iodomethane	--	--	--	--	< 2	--	--	< 10	< 10	--	--	--	< 2	--	--	< 10	< 10	--	< 10	< 10
Isopropyl Benzene (Cumene)	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
m,p-Xylene	--	--	--	--	--	--	< 1	< 1	< 1	--	--	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	--	--	--	--	< 2	--	< 5	< 5	< 5	--	--	--	< 2	--	< 5	< 5	< 5	< 5	< 5	< 5
MTBE	--	--	--	--	< 1	--	< 10	< 10	< 10	--	--	--	< 1	--	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	--	--	--	--	< 2	--	< 5	< 5	< 5	--	--	--	< 2	--	< 5	< 5	< 5	< 5	< 5	< 5
N-Butylbenzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
N-Propylbenzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
O-Xylene	--	--	--	--	--	--	< 1	< 1	< 1	--	--	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
P-Isopropyltoluene (Cymene)	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
Sec-Butylbenzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
Tert-Butylbenzene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	--	--	--	--	0.32 J	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,2-Dichloroethene	--	--	--	--	1.1	--	1.6	1.3	2.9	--	--	--	4.5	--	3	3	1.5	0.75 J	4.9	0.64 J
Trans-1,3-Dichloropropene	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,4-Dichloro-2-Butene	--	--	--	--	< 2	--	--	< 2	< 2	--	--	--	< 2	--	--	< 2	< 2	--	< 2	< 2
Trichloroethene	--	--	--	--	20	--	26	19	48	--	--	--	25	--	15	16	9.2	0.55 J	0.82 J	11
Trichlorofluoromethane	--	--	--	--	< 1	--	< 1	< 1	< 1	--	--	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Acetate	--	--	--	--	< 2	--	< 2	< 2	< 2	--	--	--	< 2	--	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Chloride	--	--	--	--	< 0.8	--	< 1	< 1	< 1	--	--	--	7.5	--	8	10	6.5	1.9	29	1.4
Xylenes (Total)	--	--	--	--	< 3	--	< 1	< 1	< 1	--	--	--	< 3	--	< 1	< 1	< 1	< 1	< 1	< 1
Dissolved Gases (µg/L)																				
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/L)																				
Sodium	0.602 J	--	< 1	4.81	4.67	4.72	4.3	4.1	3.8	3	2.7	9.22	9.22	9.33	8.8	8.6	8.1	--	--	--
Iron (Ferrous)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry (mg/L)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromide	--	--	--	--	--	--	0.24 J	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloride-Cl	--	--	--	--	4.08	--	4.3	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	--	--	--	--	--	--	0.073 J	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-N	--	--	--	--	0.124	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	0.363 J	--	< 1	2.23	2.16	1.3	1.6	1.1	1.2	0.42 J	0.48 J	1.92	2.11	1.94	3.5	1.2	1.5	--	--	--
TOC	--	< 1	--	--	0.708 J	--	< 1	--	--	--	--	--	1.43	--	1	--	--	< 1	--	--

Footnotes on last page.

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G47	OLF-G47	OLF-G71- PORT1	OLF-G71- PORT1	OLF-G71- PORT1	OLF-G71- PORT1	OLF-G71- PORT1	OLF-G71- PORT1	OLF-G71- PORT2	OLF-G71- PORT2	OLF-G71- PORT2	OLF-G71- PORT2	OLF-G71- PORT2	OLF-G71- PORT2	OLF-G71- PORT3	OLF-G71- PORT3
Date	11/28/18	5/9/19	8/15/17	11/7/17	2/14/18	5/16/18	11/14/18	5/6/19	8/15/17	11/7/17	2/14/18	5/16/18	11/14/18	5/6/19	8/15/17	11/7/17
VOC (µg/L)																
1,1,1,2-Tetrachloroethane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,1,1-Trichloroethane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,1,2,2-Tetrachloroethane	1.9	2.3	--	0.21 J	--	5	5.8	7.4	--	< 1	--	< 1	< 1	< 1	--	1.4
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	< 1	--	< 1	--	--	< 1	< 1	--	< 1	--	--	< 1	< 1	--	< 1
1,1,2-Trichloroethane	0.4 J	0.35 J	--	< 1	--	< 2	< 1	0.55 J	--	< 1	--	< 1	< 1	< 1	--	< 1
1,1-Dichloroethane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,1-Dichloroethene	< 1	< 1	--	0.7 J	--	0.86 J	0.98 J	0.89 J	--	< 1	--	< 1	< 1	< 1	--	0.36 J
1,1-Dichloropropene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,2,3-Trichlorobenzene	< 5	< 5	--	< 1	--	< 10	< 5	< 5	--	< 1	--	< 5	< 5	< 5	--	< 1
1,2,3-Trichloropropane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,2,4-Trichlorobenzene	< 5	< 5	--	< 1	--	< 10	< 5	< 5	--	< 1	--	< 5	< 5	< 5	--	< 1
1,2,4-Trimethylbenzene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,2-Dibromo-3-Chloropropane	< 5	< 5	--	< 2	--	< 10	< 5	< 5	--	< 2	--	< 5	< 5	< 5	--	< 2
1,2-Dibromoethane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,2-Dichlorobenzene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,2-Dichloroethane	< 1	< 1	--	1	--	1.3 J	0.96 J	1	--	0.8 J	--	0.94 J	0.59 J	0.66 J	--	0.77 J
1,2-Dichloropropane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,3,5-Trimethylbenzene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,3-Dichlorobenzene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,3-Dichloropropane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
1,4-Dichlorobenzene	< 1	< 1	--	0.51 J	--	< 2	0.6 J	0.66 J	--	< 1	--	< 1	< 1	< 1	--	0.37 J
2,2-Dichloropropane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
2-Butanone (MEK)	< 10	< 10	--	< 10	--	< 20	< 10	< 10	--	< 10	--	< 10	< 10	< 10	--	< 10
2-Chlorotoluene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
2-Hexanone	< 10	< 10	--	< 10	--	< 20	< 10	< 10	--	< 10	--	< 10	< 10	< 10	--	< 10
4-Chlorotoluene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
4-Methyl-2-Pentanone (MIBK)	< 10	< 10	--	< 10	--	< 20	< 10	< 10	--	< 10	--	< 10	< 10	< 10	--	< 10
Acetone	< 10	< 10	--	< 10	--	< 20	< 10	< 10	--	< 10	--	< 10	< 10	7 J	--	6.2 J (UB)
Acrylonitrile	< 20	< 20	--	< 10	--	--	< 20	< 20	--	< 10	--	--	< 20	< 20	--	< 10
Benzene	< 1	< 1	--	1.1	--	1.1 J	0.94 J	1.1	--	0.57 J	--	0.72 J	0.6 J	0.67 J	--	0.79 J
Bromobenzene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Bromochloromethane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Bromodichloromethane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Bromoform	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Bromomethane	< 5	< 5	--	< 2	--	< 10	< 5	< 5	--	< 2	--	< 5	< 5	< 5	--	< 2
Carbon Disulfide	< 2	< 2	--	< 1	--	< 4	< 2	< 2	--	< 1	--	< 2	< 2	< 2	--	< 1
Carbon Tetrachloride	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Chlorobenzene	< 1	< 1	--	4.9	--	5.4	5.5	5.8	--	2.1	--	2.8	2.3	2.5	--	3.3
Chloroethane	< 5	< 5	--	0.94 J	--	< 10	< 5	4.3 J	--	0.75 J	--	< 5	< 5	< 5	--	0.85 J
Chloroform	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Chloromethane	< 1	< 1	--	< 2	--	< 2	< 1	< 1	--	< 2	--	< 1	< 1	< 1	--	< 2
Cis-1,2-Dichloroethene	4.6	3.7	--	140	--	130	110	120	--	49	--	60	44	47	--	53
Cis-1,3-Dichloropropene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Dibromochloromethane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G47	OLF-G47	OLF-G71- PORT1	OLF-G71- PORT1	OLF-G71- PORT1	OLF-G71- PORT1	OLF-G71- PORT1	OLF-G71- PORT1	OLF-G71- PORT2	OLF-G71- PORT2	OLF-G71- PORT2	OLF-G71- PORT2	OLF-G71- PORT2	OLF-G71- PORT2	OLF-G71- PORT3	OLF-G71- PORT3
Dibromomethane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Dichlorodifluoromethane	< 1	< 1	--	< 2	--	< 2	< 1	< 1	--	< 2	--	< 1	< 1	< 1	--	< 2
Ethylbenzene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Hexachlorobutadiene	< 5	< 5	--	< 1	--	< 10	< 5	< 5	--	< 1	--	< 5	< 5	< 5	--	< 1
Iodomethane	< 10	< 10 (UJ)	--	< 2	--	--	< 10	< 10	--	< 2	--	--	< 10	< 10	--	< 2
Isopropyl Benzene (Cumene)	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
m,p-Xylene	< 1	< 1	--	--	--	< 2	< 1	< 1	--	--	--	< 1	< 1	< 1	--	--
Methylene Chloride	< 5	< 5	--	< 2	--	< 10	< 5	< 5	--	< 2	--	< 5	< 5	< 5	--	< 2
MTBE	< 10	< 10	--	< 1	--	< 20	< 10	< 10	--	< 1	--	< 10	< 10	< 10	--	< 1
Naphthalene	< 5	< 5	--	< 2	--	< 10	< 5	< 5	--	< 2	--	< 5	< 5	< 5	--	< 2
N-Butylbenzene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
N-Propylbenzene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
O-Xylene	< 1	< 1	--	--	--	< 2	< 1	< 1	--	--	--	< 1	< 1	< 1	--	--
P-Isopropyltoluene (Cymene)	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Sec-Butylbenzene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Styrene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Tert-Butylbenzene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Tetrachloroethylene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Toluene	< 1	< 1	--	1.5	--	1 J	0.59 J	0.61 J	--	5.3	--	2.1	1.6	1.3	--	1.2
Trans-1,2-Dichloroethene	1.3	1.1	--	14	--	19	17 B (B)	17	--	4.2	--	5.4	4.1	4.2	--	7.9
Trans-1,3-Dichloropropene	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Trans-1,4-Dichloro-2-Butene	< 2	< 2	--	< 2	--	--	< 2	< 2	--	< 2	--	--	< 2	< 2	--	< 2
Trichloroethene	34	34	--	15	--	47	47	83	--	12	--	9.7	11	10	--	47
Trichlorofluoromethane	< 1	< 1	--	< 1	--	< 2	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1
Vinyl Acetate	< 2	< 2	--	< 2	--	< 4	< 2	< 2	--	< 2	--	< 2	< 2	< 2	--	< 2
Vinyl Chloride	< 1	< 1	--	4.8	--	6.9	6.7	6.2	--	2	--	2.8	2.4	2.3	--	3.8
Xylenes (Total)	< 1	< 1	--	< 3	--	< 2	< 1	< 1	--	< 3	--	< 1	< 1	< 1	--	< 3
Dissolved Gases (µg/L)																
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/L)																
Sodium	--	--	84.9	80.1	80.4	85	83	77	25.2	26.4	31.4	36	38	35	16.9	17.6
Iron (Ferrous)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry (mg/L)			--	--	--	--			--	--	--	--			--	--
Bromide	--	--	--	--	--	1	--	--	--	--	--	0.76 J	--	--	--	--
Chloride-Cl	--	--	--	--	--	69	--	--	--	--	--	41	--	--	--	--
Fluoride	--	--	--	--	--	0.21	--	--	--	--	--	0.24	--	--	--	--
Nitrate-N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	--	--	2.33	3.76	4.32	7.9	4.8	5.1	6.16	6.16	6.71	9.5	7.3	7.1	1.44	1.74
TOC	--	--	--	2.06	--	2.2	--	--	--	3.61	--	3.5	--	--	--	1.62

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Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G71- PORT3	OLF-G71- PORT3	OLF-G71- PORT3	OLF-G71- PORT3	OLF-G71- PORT4	OLF-G71- PORT4	OLF-G71- PORT4	OLF-G71- PORT4	OLF-G71- PORT4	OLF-G71- PORT4	OLF-G71- PORT5	OLF-G71- PORT5	OLF-G71- PORT5	OLF-G71- PORT5	OLF-G71- PORT5
Date	2/14/18	5/16/18	11/14/18	5/6/19	8/15/17	11/7/17	2/14/18	5/16/18	11/14/18	5/6/19	8/15/17	11/7/17	2/14/18	5/16/18	11/14/18
VOC (µg/L)															
1,1,1,2-Tetrachloroethane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,1,1-Trichloroethane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,1,2,2-Tetrachloroethane	--	1.1	0.88 J	0.73 J	--	1.9	--	1.1	0.73 J	< 1	--	< 1	--	< 1	< 1
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	< 1	< 1	--	< 1	--	--	< 1	< 1	--	< 1	--	--	< 1
1,1,2-Trichloroethane	--	< 1	< 1	< 1	--	0.25 J	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,1-Dichloroethane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,1-Dichloroethene	--	0.42 J	0.36 J	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,1-Dichloropropene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,2,3-Trichlorobenzene	--	< 5	< 5	< 5	--	< 1	--	< 5	< 5	< 5	--	< 1	--	< 5	< 5
1,2,3-Trichloropropane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,2,4-Trichlorobenzene	--	< 5	< 5	< 5	--	< 1	--	< 5	< 5	< 5	--	< 1	--	< 5	< 5
1,2,4-Trimethylbenzene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,2-Dibromo-3-Chloropropane	--	< 5	< 5	< 5	--	< 2	--	< 5	< 5	< 5	--	< 2	--	< 5	< 5
1,2-Dibromoethane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,2-Dichlorobenzene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,2-Dichloroethane	--	0.78 J	0.69 J	0.64 J	--	0.64 J	--	0.62 J	0.56 J	< 1	--	1	--	0.63 J	0.57 J
1,2-Dichloropropane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,3,5-Trimethylbenzene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,3-Dichlorobenzene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,3-Dichloropropane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
1,4-Dichlorobenzene	--	0.48 J	0.56 J	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
2,2-Dichloropropane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
2-Butanone (MEK)	--	< 10	< 10	< 10	--	< 10	--	< 10	< 10	< 10	--	< 10	--	< 10	< 10
2-Chlorotoluene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
2-Hexanone	--	< 10	< 10	< 10	--	< 10	--	< 10	< 10	< 10	--	< 10	--	< 10	< 10
4-Chlorotoluene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
4-Methyl-2-Pentanone (MIBK)	--	< 10	< 10	< 10	--	< 10	--	< 10	< 10	< 10	--	< 10	--	< 10	< 10
Acetone	--	< 10	< 10	< 10	--	< 10	--	< 10	< 10	< 10	--	< 10	--	7.1 J	< 10
Acrylonitrile	--	--	< 20	< 20	--	< 10	--	--	< 20	< 20	--	< 10	--	--	< 20
Benzene	--	0.78 J	0.73 J	0.67 J	--	0.71 J	--	0.62 J	0.52 J	0.44 J	--	1.1	--	0.62 J	1.1
Bromobenzene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Bromochloromethane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Bromodichloromethane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Bromoform	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Bromomethane	--	< 5	< 5	< 5	--	< 2	--	< 5	< 5	< 5	--	< 2	--	< 5	< 5
Carbon Disulfide	--	< 2	< 2	< 2	--	< 1	--	< 2	< 2	< 2	--	0.24 J	--	< 2	< 2
Carbon Tetrachloride	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Chlorobenzene	--	3.5	3.1	2.7	--	2.6	--	2.7	2.7	2.3	--	1.4	--	0.6 J	0.99 J
Chloroethane	--	< 5	< 5	3.2 J	--	0.53 J	--	< 5	< 5	< 5	--	0.74 J	--	< 5	< 5
Chloroform	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Chloromethane	--	< 1	< 1	< 1	--	< 2	--	< 1	< 1	< 1	--	0.38 J	--	< 1	< 1
Cis-1,2-Dichloroethene	--	48	31	27	--	32	--	34	27	26	--	14	--	6.7	6.3
Cis-1,3-Dichloropropene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Dibromochloromethane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G71- PORT3	OLF-G71- PORT3	OLF-G71- PORT3	OLF-G71- PORT3	OLF-G71- PORT4	OLF-G71- PORT4	OLF-G71- PORT4	OLF-G71- PORT4	OLF-G71- PORT4	OLF-G71- PORT4	OLF-G71- PORT5	OLF-G71- PORT5	OLF-G71- PORT5	OLF-G71- PORT5	OLF-G71- PORT5
Dibromomethane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Dichlorodifluoromethane	--	< 1	< 1	< 1	--	< 2	--	< 1	< 1	< 1	--	< 2	--	< 1	< 1
Ethylbenzene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Hexachlorobutadiene	--	< 5	< 5	< 5	--	< 1	--	< 5	< 5	< 5	--	< 1	--	< 5	< 5
Iodomethane	--	--	< 10	< 10	--	< 2	--	--	< 10	< 10	--	< 2	--	--	< 10
Isopropyl Benzene (Cumene)	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
m,p-Xylene	--	< 1	< 1	< 1	--	--	--	< 1	< 1	< 1	--	--	--	< 1	< 1
Methylene Chloride	--	< 5	< 5	< 5	--	< 2	--	< 5	< 5	< 5	--	< 2	--	< 5	< 5
MTBE	--	< 10	< 10	< 10	--	< 1	--	< 10	< 10	< 10	--	< 1	--	< 10	< 10
Naphthalene	--	< 5	< 5	< 5	--	< 2	--	< 5	< 5	< 5	--	< 2	--	< 5	< 5
N-Butylbenzene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
N-Propylbenzene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
O-Xylene	--	< 1	< 1	< 1	--	--	--	< 1	< 1	< 1	--	--	--	< 1	< 1
P-Isopropyltoluene (Cymene)	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Sec-Butylbenzene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Styrene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Tert-Butylbenzene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Tetrachloroethylene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Toluene	--	< 1	< 1	< 1	--	11	--	3.6	2.2	1.8	--	20	--	2.4	3.2
Trans-1,2-Dichloroethene	--	7.4	6.1 B (B)	5.1	--	2.4	--	2.4	2.3 B (B)	1.6	--	0.53 J	--	< 1	< 1
Trans-1,3-Dichloropropene	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Trans-1,4-Dichloro-2-Butene	--	--	< 2	< 2	--	< 2	--	--	< 2	< 2	--	< 2	--	--	< 2
Trichloroethene	--	58	54	52	--	23	--	25	24	22	--	0.97 J	--	< 1	< 1
Trichlorofluoromethane	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1
Vinyl Acetate	--	< 2	< 2	< 2	--	< 2	--	< 2	< 2	< 2	--	< 2	--	< 2	< 2
Vinyl Chloride	--	3.8	4.3	3.6	--	1.7	--	1.7	2.2	1.6	--	0.71 J	--	< 1	< 1
Xylenes (Total)	--	< 1	< 1	< 1	--	< 3	--	< 1	< 1	< 1	--	< 3	--	< 1	< 1
Dissolved Gases (µg/L)															
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/L)															
Sodium	17.1	14	14	15	17.2	17.6	17.7	15	12	13	22.7	29.6	28.4	22	23
Iron (Ferrous)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry (mg/L)	--	--			--	--	--	--			--	--	--	--	
Bromide	--	0.89 J	--	--	--	--	--	0.53 J	--	--	--	--	--	0.58 J	--
Chloride-Cl	--	55	--	--	--	--	--	32	--	--	--	--	--	40	--
Fluoride	--	0.19 J	--	--	--	--	--	0.27	--	--	--	--	--	0.29	--
Nitrate-N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	1.72	4.1	2.2	1.4	0.331 J	0.738	0.429 J	< 2	< 1	< 1	< 0.5	0.583	0.272 J	< 2	< 1
TOC	--	1.6	--	--	--	2.04	--	2.2	--	--	--	9.57	--	10	--

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Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G71- PORT5	OLF-G72- PORT1	OLF-G72- PORT1	OLF-G72- PORT1	OLF-G72- PORT1	OLF-G72- PORT1	OLF-G72- PORT1	OLF-G72- PORT2	OLF-G72- PORT2	OLF-G72- PORT2	OLF-G72- PORT2	OLF-G72- PORT2	OLF-G72- PORT2	OLF-G72- PORT3	OLF-G72- PORT3
Date	5/6/19	8/15/17	11/8/17	2/22/18	5/17/18	11/13/18	5/2/19	8/15/17	11/8/17	2/22/18	5/17/18	11/13/18	5/2/19	8/15/17	11/8/17
VOC (µg/L)															
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	160	55	0.99 J	< 1	< 1	< 1 (UJ)	110	52	15 (J)	5.1	< 5	0.76 J	75	21
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	--	< 5	< 1	< 1	< 1
1,1,2-Trichloroethane	< 1	26	19	3.6	< 1	< 1	< 1 (UJ)	18	7.2	3.8 (J)	< 5	< 5	< 1	27	12
1,1-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,1-Dichloroethene	< 1	3.5	0.67 J	< 1	< 1	< 1	< 1	3	2.4	2 (J)	< 5	< 5	< 1	1.5	1.2
1,1-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,2,3-Trichlorobenzene	< 5	< 1	< 1	< 1	< 5	< 5	< 5 (UJ)	< 1	< 1	< 1 (UJ)	< 25	< 25	< 5	< 1	< 1
1,2,3-Trichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 5	< 1	< 1	< 1	< 5	< 5	< 5 (UJ)	< 1	< 1	< 1 (UJ)	< 25	< 25	< 5	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,2-Dibromo-3-Chloropropane	< 5	< 2	< 2	< 2	< 5	< 5	< 5 (UJ)	< 2	< 2	< 2 (UJ)	< 25	< 25	< 5	< 2	< 2
1,2-Dibromoethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,2-Dichloroethane	0.58 J	3.2	7.6	17	11	6.8 F1	5.5 F1 (J)	3	14	28 (J)	19	7.9	3.7	3.9	4.1
1,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.21 J	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	0.52 J	0.32 J	0.41 J	0.47 J	0.79 J F1	< 0.96 (UB)	0.23 J	0.27 J	0.38 J (J)	< 5	< 5	< 0.8 (UB)	0.59 J	0.5 J
2,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
2-Butanone (MEK)	< 10	85	110	98	47	< 10	16 F2 F1 (J)	17	< 10	32 (J)	26 J	33 J	35	< 10	< 10
2-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	3.6 J	2.1 J	< 10	< 10 (UJ)	< 10	< 10	< 10 (UJ)	< 50	< 50	2.4 J	< 10	< 10
4-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
4-Methyl-2-Pentanone (MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJ)	< 10	< 10	< 10 (UJ)	< 50	< 50	< 10	< 10	< 10
Acetone	< 10	16 (UB)	13	15	8.9 J	< 10	7.6 J F2 F1 (J)	< 10	10 (UB)	15 (UB UJ)	< 50	< 50	12	< 10	< 10
Acrylonitrile	< 20	< 10	< 10	< 10	--	< 20	< 20 (UJ)	< 10	< 10	< 10 (UJ)	--	< 100	< 20	< 10	< 10
Benzene	0.92 J	0.87 J	0.7 J	1	1.1	1.2 F1	1.2	1.2	1.6	2.1 (J)	< 5	< 5	1.7	1.3	1.2
Bromobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Bromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Bromoform	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Bromomethane	< 5	< 2	< 2	< 2	< 5	< 5	< 5	< 2	< 2	< 2 (J)	< 25	< 25	< 5	< 2	< 2
Carbon Disulfide	< 2	< 1	< 1	< 1	< 2	< 2	< 1.5 (UB)	< 1	< 1	0.21 J (J)	< 10	< 10	< 1.2 (UB)	< 1	< 1
Carbon Tetrachloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Chlorobenzene	1.2	44	29	35	34	55 F1	51 F1	19	20	32 (J)	35	36	36	35	28
Chloroethane	2.5 J	0.37 J	0.38 J	0.86 J	< 5	< 5	< 5	< 2	0.62 J	4.3(J)	< 25	< 25	7.2	0.65 J	0.42 J
Chloroform	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Chloromethane	< 1	< 2	< 2	< 2	< 1	< 1	< 1	< 2	< 2	< 2 (UJ)	< 5	< 5	< 1	< 2	< 2
Cis-1,2-Dichloroethene	9	460	130	6.8	2.2	0.85 J F1	0.62 J	370	430	450 (J)	410	110	26	290	320
Cis-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G71- PORT5	OLF-G72- PORT1	OLF-G72- PORT1	OLF-G72- PORT1	OLF-G72- PORT1	OLF-G72- PORT1	OLF-G72- PORT1	OLF-G72- PORT2	OLF-G72- PORT2	OLF-G72- PORT2	OLF-G72- PORT2	OLF-G72- PORT2	OLF-G72- PORT2	OLF-G72- PORT3	OLF-G72- PORT3
Dibromomethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Dichlorodifluoromethane	< 1	< 2	< 2	< 2	< 1	< 1	< 1	< 2	< 2	< 2 (UJ)	< 5	< 5	< 1	< 2	< 2
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Hexachlorobutadiene	< 5	< 1	< 1	< 1	< 5	< 5	< 5	< 1	< 1	< 1 (UJ)	< 25	< 25	< 5	< 1	< 1
Iodomethane	< 10	< 2	< 2	< 2	--	< 10	< 10	< 2	< 2	< 2 (UJ)	--	< 50	< 10	< 2	< 2
Isopropyl Benzene (Cumene)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
m,p-Xylene	< 1	--	--	--	< 1	< 1	< 1	--	--	--	< 5	< 5	< 1	--	--
Methylene Chloride	< 5	1.6 J	1.5 J	1.2 J	< 5	< 5	< 5 (UJ)	1.2 J	0.9 J	0.64 J (J)	< 25	< 25	< 5	0.89 J	0.75 J
MTBE	< 10	< 1	< 1	< 1	< 10	< 10	< 10 (UJ)	< 1	< 1	< 1 (UJ)	< 50	< 50	< 10	< 1	< 1
Naphthalene	< 5	< 2	< 2	< 2	< 5	< 5	< 5 (UJ)	< 2	< 2	< 2 (UJ)	< 25	< 25	< 5	< 2	< 2
N-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
N-Propylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
O-Xylene	< 1	--	--	--	< 1	< 1	< 1	--	--	--	< 5	< 5	< 1	--	--
P-Isopropyltoluene (Cymene)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Tetrachloroethylene	< 1	0.98 J	0.56 J	0.55 J	< 1	< 1	< 1	0.74 J	0.41 J	0.27 J (J)	< 5	< 5	< 1	0.63 J	0.33 J
Toluene	3.3	2	1.8	1.7	1.2	0.69 J F1	0.57 J	5.9	9.2	8.3(J)	9.9	10	6.4	12	12
Trans-1,2-Dichloroethene	0.48 J	46	32	62	18	2.1 F1	1.3 B (UB)	37	31	29 (J)	27	20	16 B (B)	29	25
Trans-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Trans-1,4-Dichloro-2-Butene	< 2	< 2	< 2	< 2	--	< 2	< 2 (UJ)	< 2	< 2	< 2 (UJ)	--	< 10	< 2	< 2	< 2
Trichloroethene	1.3	11	4.6	0.75 J	< 1	< 1	< 1	51	28	12 (J)	6.6	3.2 J	1.7	49	28
Trichlorofluoromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)	< 5	< 5	< 1	< 1	< 1
Vinyl Acetate	< 2	< 2	< 2	< 2	< 2	< 2	< 2 (UJ)	< 2	< 2	< 2 (UJ)	< 10	< 10	< 2	< 2	< 2
Vinyl Chloride	0.5 J	25	26	1.9	0.52 J	< 1	< 1	35	18	23 (J)	18	13	4.4	22	16
Xylenes (Total)	< 1	< 3	< 3	< 3	< 1	< 1	< 1	< 3	< 3	< 3 (UJ)	< 5	< 5	< 1	< 3	< 3
Dissolved Gases (µg/L)															
Ethane	--	5.7	5.3	7.9	15	26	19	4.8	2.7	1.7	1.9	< 1.1	5.1	6.7	7.3
Ethene	--	7.5	56	120	190	250	190	5.8	4.6	5.7	17	30	50	6.4	7.1
Methane	--	250	5300	8100	32000	27000	31000	270	12000	9900	21000	21000	21000	170	3100
Metals (mg/L)															
Sodium	25	30	39	40.1	34	25	24	43.8	46.1	30.5	33	63	42	17	24.2
Iron (Ferrous)	--	--	3	5	3.5	--	--	--	3.5	3.6	2.5	--	--	--	2
General Chemistry (mg/L)		--	--	--	--			--	--	--	--			--	--
Bromide	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloride-Cl	--	43.1	65.2	65	53	--	--	40.6	38.9	50.2	41	--	--	56.4	56.1
Fluoride	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-N	--	0.0664 J	0.096 J	< 0.1	< 0.05	--	--	0.0966 J	0.0917 J	< 0.1	< 0.05	--	--	< 0.1	< 0.1
Sulfate	< 1	0.613	0.357 J	0.627	< 2	< 1	< 1 (UJ)	0.452 J	0.512	0.366 J	< 2	< 1	< 1	0.284 J	0.42 J
TOC	--	232	322	224	190	97	79	240	270	166	180	160	170	20	10

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Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G72- PORT3	OLF-G72- PORT3	OLF-G72- PORT3	OLF-G72- PORT3	OLF-G72- PORT4	OLF-G72- PORT4	OLF-G72- PORT4	OLF-G72- PORT4	OLF-G72- PORT4	OLF-G72- PORT4	OLF-G72- PORT5	OLF-G72- PORT5	OLF-G72- PORT5	OLF-G72- PORT5
Date	2/22/18	5/17/18	11/13/18	5/2/19	8/15/17	11/8/17	2/22/18	5/17/18	11/13/18	5/2/19	8/15/17	11/8/17	2/22/18	5/17/18
VOC (µg/L)														
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1.6	1.5	< 1	< 1	100	38	12	2.3	< 1	< 1	6.8	1.2	0.28 J	< 1
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	--	< 1	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1	--
1,1,2-Trichloroethane	0.87 J	0.5 J	< 1	< 1	40	19	5.3	< 1	< 1	< 1	5.6	3.5	0.49 J	0.34 J
1,1-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	< 1	< 1	< 1	< 1	1.7	0.92 J	0.42 J	< 1	< 1	< 1	0.41 J	0.35 J	0.34 J	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5
1,2,3-Trichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-Chloropropane	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5
1,2-Dibromoethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	3.5	2.3	1.9	1.5	4.5	10	20	9.7	5.3	0.69 J	1.4	2.9	3.2	1.8
1,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	0.51 J	< 1	< 1	< 0.67 (UB)	< 1	< 1	0.26 J	< 1	< 1	< 0.56 (UB)	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	< 10	3.9 J	< 10	< 10	140	63	26	13	14	< 10	< 10	< 10	< 10	< 10
2-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10	2.4 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-Pentanone (MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	< 10	< 10	18	< 10	15 (UB)	330	290	140	260	29	< 10	7.4 J (UB)	16	< 10
Acrylonitrile	< 10	--	< 20	< 20	< 10	< 10	< 10	--	< 20	< 20	< 10	< 10	< 10	--
Benzene	1.2	0.94 J	0.74 J	0.77 J	0.76 J	0.7 J	0.84 J	0.78 J	0.63 J	0.45 J	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5
Carbon Disulfide	0.31 J	< 2	< 2	< 1.1 (UB)	1.4	0.27 J	0.43 J	< 2	< 2	< 1.2 (UB)	< 1	< 1	< 1	< 2
Carbon Tetrachloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	28	23	16	16	15	18	24	25	15	16	3.1	3.2	3.5	1.8
Chloroethane	0.65 J	< 5	< 5	3.3 J	0.54 J	0.52 J	2.8	5.7 *	7.3	< 5	< 2	< 2	0.35 J	< 5
Chloroform	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	< 2	< 1	< 1	< 1	< 2	< 2	< 2	< 1	< 1	< 1	< 2	< 2	< 2	< 1
Cis-1,2-Dichloroethene	63	21	1	5.3	220	180	140	65	16	1.2	98	91	92	65
Cis-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G72- PORT3	OLF-G72- PORT3	OLF-G72- PORT3	OLF-G72- PORT3	OLF-G72- PORT4	OLF-G72- PORT4	OLF-G72- PORT4	OLF-G72- PORT4	OLF-G72- PORT4	OLF-G72- PORT4	OLF-G72- PORT5	OLF-G72- PORT5	OLF-G72- PORT5	OLF-G72- PORT5
Dibromomethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	< 2	< 1	< 1	< 1	< 2	< 2	< 2	< 1	< 1	< 1	< 2	< 2	< 2	< 1
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5
Iodomethane	< 2	--	< 10	< 10	< 2	< 2	< 2	--	< 10	< 10	< 2	< 2	< 2	--
Isopropyl Benzene (Cumene)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
m,p-Xylene	--	< 1	< 1	< 1	--	--	--	< 1	< 1	0.43 J	--	--	--	< 1
Methylene Chloride	0.5 J	< 5	< 5	< 5	1.8 J	1.1 J	< 2	< 5	< 5	< 5	0.52 J	< 2	< 2	< 5
MTBE	< 1	< 10	< 10	< 10	< 1	< 1	< 1	< 10	< 10	< 10	< 1	< 1	< 1	< 10
Naphthalene	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5
N-Butylbenzene	< 1	< 1	< 1	< 0.52 (UB)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Propylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-Xylene	--	< 1	< 1	< 1	--	--	--	< 1	< 1	< 1	--	--	--	< 1
P-Isopropyltoluene (Cymene)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	< 1	< 1	< 1	< 1	0.58 J	0.74 J	0.43 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	9.5	9	3.6	1.4	7.5	9.2	12	16	18	7.3	13	15	7.8	0.92 J
Trans-1,2-Dichloroethene	27	27	17	11 B (B)	18	12	14	13	5	3.3 B (UB)	5.1	4	4	3.2
Trans-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,4-Dichloro-2-Butene	< 2	--	< 2	< 2	< 2	< 2	< 2	--	< 2	< 2	< 2	< 2	< 2	--
Trichloroethene	12	19	0.95 J	17	100	70	28	10	1.9	1.5	12	2.6	6.2	9.9
Trichlorofluoromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Acetate	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Chloride	15	6.1	< 1	1.9	22	13	12	5.9	2.4	0.58 J	2.3	2	2.5	1.3
Xylenes (Total)	< 3	< 1	< 1	< 1	< 3	< 3	< 3	< 1	< 1	0.43 J	< 3	< 3	< 3	< 1
Dissolved Gases (µg/L)														
Ethane	7.2	11	31	26	5.7	3.6	0.94 J	1.2	1.4	3.5	1.2 J	1.4 J	0.75 J	1.3
Ethene	54	88	33	23	6.6	4	13	22	10	7.5	2.5	3.6	2	6.7
Methane	3600	9000	12000	16000	240	11000	7300	19000	20000	20000	160	4400	13000	23000
Metals (mg/L)														
Sodium	22.2	15	15	22	52.7	80.8	60.9	60	57	36	37.2	41.7	38	27
Iron (Ferrous)	2.2	3	--	--	--	4	5.7	2.5	--	--	--	2.5	1.6	1.5
General Chemistry (mg/L)	--	--			--	--	--	--	--		--	--	--	--
Bromide	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloride-Cl	57.6	41	--	--	32.1	39.8	37.1	31	--	--	14.6	15.3	20.8	9.7
Fluoride	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-N	< 0.1	< 0.05	--	--	< 0.1	0.163	< 0.1	< 0.05	--	--	< 0.1	< 0.1	< 0.1	< 0.05
Sulfate	0.579	1.5	< 1	2.6	0.759	0.601	0.719	< 1	< 1	< 1	1.06	1.26	0.69	4.9
TOC	6.31	6.5	2	1.8	630	609	179	160	51	26	7.26	22.8	3.46	1.1

Footnotes on last page.

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G72- PORT5	OLF-G72- PORT5	OLF-G72- PORT6	OLF-G72- PORT6	OLF-G72- PORT6	OLF-G72- PORT6	OLF-G72- PORT6	OLF-G72- PORT6	OLF-G73- PORT1	OLF-G73- PORT1	OLF-G73- PORT1	OLF-G73- PORT1	OLF-G73- PORT1	OLF-G73- PORT1
Date	11/13/18	5/2/19	8/15/17	11/8/17	2/22/18	5/17/18	11/13/18	5/2/19	8/14/17	11/8/17	2/20/18	5/17/18	11/13/18	5/1/19
VOC (µg/L)														
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	8.3	3.4	2.1	0.75 J	< 1	< 1	110	6.5	< 1	< 1	< 1	< 1
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1	--	< 1	< 1
1,1,2-Trichloroethane	0.33 J	0.48 J	1.7	1.1	0.9 J	0.68 J	0.69 J	0.47 J	19	5.1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.34 J B
1,2,3-Trichlorobenzene	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 5
1,2,3-Trichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 5
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-Chloropropane	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5
1,2-Dibromoethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.43 (UB)
1,2-Dichloroethane	2.2	0.61 J	0.33 J	0.7 J	0.48 J	< 1	0.54 J	< 1	1.4	1.9	1.3	1.7	1.4	1.5
1,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.47 (UB)
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.54 (UB)
1,3-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.39 J	0.41 J	0.53 J	< 1	0.8 J	< 1.3 (UB)
2,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	4.1 J	4.2 J	< 10	< 10	< 10
2-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.49 (UB)
4-Methyl-2-Pentanone (MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	5.4 J (UB)	< 10	< 10	< 10	< 10
Acrylonitrile	< 20	< 20	< 10	< 10	< 10	--	< 20	< 20	< 10	< 10	< 10	--	< 20	< 20
Benzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.65 J	0.69 J	0.87 J	0.89 J	0.96 J	1.1
Bromobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5
Carbon Disulfide	< 2	< 2	< 1	< 1	< 1	< 2	< 2	< 2	< 1	< 1	< 1	< 2	< 2	< 2.2 (UB)
Carbon Tetrachloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	1.7	1.5	1.2	0.87 J	0.88 J	0.65 J	0.8 J	0.71 J	17	19	23	40	61	68
Chloroethane	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	6
Chloroform	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	< 1	< 1	< 2	< 2	< 2	< 1	< 1	< 1	< 2	< 2	< 2	< 1	< 1	< 1
Cis-1,2-Dichloroethene	46	6.7	21	24	24	10	19	5.8	31	3.3	< 1	< 1	< 1	< 0.46 (UB)
Cis-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G72- PORT5	OLF-G72- PORT5	OLF-G72- PORT6	OLF-G72- PORT6	OLF-G72- PORT6	OLF-G72- PORT6	OLF-G72- PORT6	OLF-G72- PORT6	OLF-G73- PORT1	OLF-G73- PORT1	OLF-G73- PORT1	OLF-G73- PORT1	OLF-G73- PORT1	OLF-G73- PORT1
Dibromomethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	< 1	< 1	< 2	< 2	< 2	< 1	< 1	< 1	0.48 J	0.37 J	0.4 J	< 1	< 1	< 1
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 2.9 (UB)
Iodomethane	< 10	< 10	< 2	< 2	< 2	--	< 10	< 10	< 2	< 2	< 2	--	< 10	< 10
Isopropyl Benzene (Cumene)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.44 (UB)
m,p-Xylene	< 1	< 1	--	--	--	< 1	< 1	< 1	--	--	--	< 1	< 1	< 1
Methylene Chloride	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	0.78 J	0.8 J	0.8 J	< 5	< 5	< 5
MTBE	< 10	< 10	< 1	< 1	< 1	< 10	< 10	< 10	< 1	< 1	< 1	< 10	< 10	< 10
Naphthalene	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5
N-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.99 (UB)
N-Propylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.49 (UB)
O-Xylene	< 1	< 1	--	--	--	< 1	< 1	< 1	--	--	--	< 1	< 1	< 0.3 (UB)
P-Isopropyltoluene (Cymene)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.54 (UB)
Sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.61 (UB)
Styrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.62 (UB)
Tetrachloroethylene	< 1	< 1	0.38 J	0.26 J	0.26 J	< 1	< 1	< 1	0.57 J	0.23 J	< 1	< 1	< 1	< 1
Toluene	2.7	0.82 J	1.6	3.4	2.5	< 1	1.3	< 1	3	2	0.31 J	< 1	< 1	1.1
Trans-1,2-Dichloroethene	2.6	1.9 B (UB)	3.4	2.4	2.4	2	2.1	1.3 B (UB)	67	71	1.4	0.52 J	< 1	1 B
Trans-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,4-Dichloro-2-Butene	< 2	< 2	< 2	< 2	< 2	--	< 2	< 2	< 2	< 2	< 2	--	< 2	< 2
Trichloroethene	8.7	22	64	41	42	47	40	29	4.8	1.3	0.24 J	< 1	< 1	< 2 (UB)
Trichlorofluoromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Acetate	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Chloride	1.8	2.2	0.86	0.46 J	0.53 J	< 1	0.59 J	< 1	16	1.6	0.31 J	< 1	< 1	< 1
Xylenes (Total)	< 1	< 1	< 3	< 3	< 3	< 1	< 1	< 1	< 3	< 3	< 3	< 1	< 1	< 0.3 (UB)
Dissolved Gases (µg/L)														
Ethane	1.8	0.72 J	< 1.5	< 1.5	< 1.5	< 1.1	< 1.1	< 1.1	1.1 J	1.2 J	3.6	9.2	11	21
Ethene	9.5	5.4	< 1.5	< 1.5	< 1.5	0.8 J	1.5	0.73 J	89	99	200	330	300	280
Methane	17000	9200	120	1500	3000	1200	6100	1100	280	5600	5100	13000	9600	13000
Metals (mg/L)														
Sodium	26	17	4.62	4.56	4.46	4.3	3.4	4	15.3	16	13.5	7.5	12	12
Iron (Ferrous)	--	--	--	0.5	0.2	1	--	--	--	2	7	2.5	--	--
General Chemistry (mg/L)			--	--	--	--			--	--	--	--		
Bromide	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloride-Cl	--	--	11.5	9.47	10.5	6.9	--	--	30.7	29.2	35.1	20	--	--
Fluoride	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-N	--	--	< 0.1	< 0.1	< 0.1	< 0.05	--	--	< 0.1	< 0.1	< 0.1	< 0.05	--	--
Sulfate	2.6	11	11.8	9.07	13	13	7.9	14	0.591	0.461 J	0.287 J	1.2	< 1	< 1
TOC	1.3	0.79 J	2.44	5.38	1.24	0.61 J	0.9 J	< 1	54.2	65	32.6	0.73 J	12	8.8

Footnotes on last page.

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G73- PORT2	OLF-G73- PORT2	OLF-G73- PORT2	OLF-G73- PORT2	OLF-G73- PORT2	OLF-G73- PORT2	OLF-G73- PORT3	OLF-G73- PORT3	OLF-G73- PORT3	OLF-G73- PORT3	OLF-G73- PORT3	OLF-G73- PORT3	OLF-G73- PORT4	OLF-G73- PORT4
Date	8/14/17	11/8/17	2/20/18	5/17/18	11/13/18	5/1/19	8/14/17	11/8/17	2/20/18	5/17/18	11/13/18	5/1/19	8/14/17	11/8/17
VOC (µg/L)														
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	92	50	9.2	2	< 1	< 1	23 (J)	28	37	< 1	7.8	3.1	4.1	< 1
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	< 1	< 1	--	< 1	< 1	< 5	< 1	< 1	--	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	7.9	4.3	0.72 J	< 1	< 1	< 1	3.1 J	2.8	3	< 1	1.2	0.96 J	1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	0.59 J	0.59 J	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 0.45 (UB)	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	< 1	< 1	< 1	< 5	< 5	< 5	< 5	< 1	< 1	< 5	< 5	< 5	< 1	< 1
1,2,3-Trichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 5	< 5	< 5	< 5	< 1	< 1	< 5	< 5	< 5	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	0.33 J	< 1
1,2-Dibromo-3-Chloropropane	< 2	< 2	< 2	< 5	< 5	< 5	< 10	< 2	< 2	< 5	< 5	< 5	< 2	< 2
1,2-Dibromoethane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	0.46 J	0.64 J	0.77 J	0.62 J	1.1	0.58 J	< 5	0.28 J	0.27 J	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 0.59 (UB)	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	7.6 J	< 10
2-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	4.7 J	< 10
4-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-Pentanone (MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	41	< 10
Acrylonitrile	< 10	< 10	< 10	--	< 20	< 20	< 50	< 10	< 10	--	< 20	< 20	< 10	< 10
Benzene	< 1	0.34 J	0.41 J	< 1	0.45 J	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 5	< 5	< 5	< 10	< 2	< 2	< 5 *	< 5	< 5	< 2	< 2
Carbon Disulfide	< 1	< 1	< 1	< 2	< 2	< 1.6 (UB)	< 5	< 1	< 1	< 2	< 2	< 1.3 (UB)	< 1	< 1
Carbon Tetrachloride	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	3.7	9.4	14	7.8	19	8.1	< 5	0.27 J	0.51 J	< 1	1.4	1.9	0.25 J	< 1
Chloroethane	< 2	< 2	< 2	< 5	2.9 J	< 5	< 10	< 2	< 2	< 5	< 5	< 5	< 2	< 2
Chloroform	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	< 2	< 2	< 2	< 1	< 1	< 1	< 10	< 2	< 2	< 1	< 1	< 1	< 2	< 2
Cis-1,2-Dichloroethene	130	180	57	19	2	< 1.2 (UB)	12	25	49	1.1	38	28 B (B)	5.1	1.4
Cis-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G73- PORT2	OLF-G73- PORT2	OLF-G73- PORT2	OLF-G73- PORT2	OLF-G73- PORT2	OLF-G73- PORT2	OLF-G73- PORT3	OLF-G73- PORT3	OLF-G73- PORT3	OLF-G73- PORT3	OLF-G73- PORT3	OLF-G73- PORT3	OLF-G73- PORT4	OLF-G73- PORT4
Dibromomethane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	< 2	< 2	< 2	< 1	< 1	< 1	< 10	< 2	< 2	< 1	< 1	< 1	< 2	< 2
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 5	< 5	< 5	< 5	< 1	< 1	< 5	< 5	< 5	< 1	< 1
Iodomethane	< 2	< 2	< 2	--	< 10	< 10	< 10	< 2	< 2	--	< 10	< 10	< 2	< 2
Isopropyl Benzene (Cumene)	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
m,p-Xylene	--	--	--	< 1	< 1	< 1	--	--	--	< 1	< 1	< 1	--	--
Methylene Chloride	< 2	< 2	< 2	< 5	< 5	< 5	< 10	< 2	< 2	< 5	< 5	< 5	< 2	< 2
MTBE	< 1	< 1	< 1	< 10	< 10	< 10	< 5	< 1	< 1	< 10	< 10	< 10	< 1	< 1
Naphthalene	< 2	< 2	< 2	< 5	< 5	< 5	< 10	< 2	< 2	< 5	< 5	< 5	< 2	< 2
N-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 0.53 (UB)	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
N-Propylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-Xylene	--	--	--	< 1	< 1	< 1	--	--	--	< 1	< 1	< 1	--	--
P-Isopropyltoluene (Cymene)	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	1.1	0.68 J	0.22 J	< 1	< 1	< 1	< 5	0.88 J	0.79 J	< 1	< 1	< 1	< 1	< 1
Toluene	2.4	1	0.26 J	< 1	< 1	< 1	< 5	< 1	< 1	0.67 J	< 1	< 1	3.1	1.7
Trans-1,2-Dichloroethene	12	20	39	23	7.9	< 2.5 (UB)	3.9 J	4.3	6.1	< 1	8.4	< 6.3 (UB)	1.1	0.32 J
Trans-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,4-Dichloro-2-Butene	< 2	< 2	< 2	--	< 2	< 2	< 10	< 2	< 2	--	< 2	< 2	< 2	< 2
Trichloroethene	98	52	25	15	2.9	3.5 B (B)	100	130	150	7.7	89	61 B (B)	7.5	9.8
Trichlorofluoromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Acetate	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Chloride	3.2	9.4	7	4.1	0.81 J	< 1	< 4	< 0.8	0.85	< 1	2.4	2.8	< 0.8	< 0.8
Xylenes (Total)	< 3	< 3	< 3	< 1	< 1	< 1	< 15	< 3	< 3	< 1	< 1	< 1	1 J	< 3
Dissolved Gases (µg/L)														
Ethane	< 1.5	1 J	2.7	2.2	31	10	< 1.5	< 1.5	< 1.5	0.57 J	0.84 J	2.3	2.7	1.7
Ethene	< 1.5	7	28	12	2	< 1	2.9	2	2.1	3.6	3	4.4	2.9	2
Methane	390	310	920	1600	6200	2800	440	310	420	1300	1900	10000	590	400
Metals (mg/L)														
Sodium	8	8.7	8.62	14	8	7.9	52.3	47.5	36.5	45	46	42	29.9	87.7
Iron (Ferrous)	--	0.5	1	0	--	--	--	1.5	2	1	--	--	--	0.5
General Chemistry (mg/L)	--	--	--	--			--	--	--	--			--	--
Bromide	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloride-Cl	28.2	35.5	34	31	--	--	18.2	19.3	21.6	16	--	--	22.1	7.63
Fluoride	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-N	< 0.1	< 0.1	< 0.1	< 0.05	--	--	0.0943 J	0.122	0.103	0.052	--	--	< 0.1	0.0627 J
Sulfate	1.31	0.788	0.49 J	< 1	< 1	3.4	16	10.5	10	8.9	6.5	8.9	13.4	20.5
TOC	0.877 J	1.47	0.983 J	28	< 1	< 1	1.33	5.04	1	1.2	< 1	0.89 J	1.78	3.26

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Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G73- PORT4	OLF-G73- PORT4	OLF-G73- PORT4	OLF-G73- PORT4	OLF-G73- PORT5	OLF-G73- PORT5	OLF-G73- PORT5	OLF-G73- PORT5	OLF-G73- PORT5	OLF-G73- PORT5	OLF-G74- PORT1	OLF-G74- PORT1	OLF-G74- PORT1	OLF-G74- PORT1
Date	2/20/18	5/17/18	11/13/18	5/1/19	8/14/17	11/8/17	2/20/18	5/16/18	11/13/18	5/1/19	8/11/17	11/7/17	2/13/18	5/16/18
VOC (µg/L)														
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,1,1-Trichloroethane	< 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	--	--	--	3.4
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	--	< 1	< 1	< 1	< 1	< 1	--	< 1	< 1	--	--	--	--
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,1-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,2,3-Trichlorobenzene	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 5	--	--	--	< 5
1,2,3-Trichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,2,4-Trichlorobenzene	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 5	--	--	--	< 5
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,2-Dibromo-3-Chloropropane	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	--	--	--	< 5
1,2-Dibromoethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
2-Butanone (MEK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
2-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
4-Chlorotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
4-Methyl-2-Pentanone (MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
Acetone	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	--	--	< 10
Acrylonitrile	< 10	--	< 20	< 20	< 10	< 10	< 10	--	< 20	< 20	--	--	--	--
Benzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Bromobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Bromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Bromoform	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Bromomethane	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	--	--	--	< 5
Carbon Disulfide	< 1	< 2	< 2	< 2	< 1	< 1	< 1	< 2	< 2	< 2	--	--	--	< 2
Carbon Tetrachloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Chlorobenzene	< 1	< 1	< 1	0.31 J H	< 1	< 1	< 1	< 1	0.69 J	< 1	--	--	--	< 1
Chloroethane	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	--	--	--	< 5
Chloroform	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Chloromethane	< 2	< 1	< 1	< 1	< 2	< 2	< 2	< 1	< 1	< 1	--	--	--	< 1
Cis-1,2-Dichloroethene	1.3	1.1	0.98 J	1.1 H	< 1	< 1	< 1	< 1	0.77 J	< 1	--	--	--	1.7
Cis-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G73- PORT4	OLF-G73- PORT4	OLF-G73- PORT4	OLF-G73- PORT4	OLF-G73- PORT5	OLF-G73- PORT5	OLF-G73- PORT5	OLF-G73- PORT5	OLF-G73- PORT5	OLF-G73- PORT5	OLF-G74- PORT1	OLF-G74- PORT1	OLF-G74- PORT1	OLF-G74- PORT1
Dibromomethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Dichlorodifluoromethane	< 2	< 1	< 1	< 1	< 2	< 2	< 2	< 1	< 1	< 1	--	--	--	< 1
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Hexachlorobutadiene	< 1	< 5	< 5	< 5	< 1	< 1	< 1	< 5	< 5	< 5	--	--	--	< 5
Iodomethane	< 2	--	< 10	< 10	< 2	< 2	< 2	--	< 10	< 10	--	--	--	--
Isopropyl Benzene (Cumene)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
m,p-Xylene	--	< 1	< 1	< 1	--	--	--	< 1	< 1	< 1	--	--	--	< 1
Methylene Chloride	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	--	--	--	< 5
MTBE	< 1	< 10	< 10	< 10	< 1	< 1	< 1	< 10	< 10	< 10	--	--	--	< 10
Naphthalene	< 2	< 5	< 5	< 5	< 2	< 2	< 2	< 5	< 5	< 5	--	--	--	< 5
N-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
N-Propylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
O-Xylene	--	< 1	< 1	< 1	--	--	--	< 1	< 1	< 1	--	--	--	< 1
P-Isopropyltoluene (Cymene)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Styrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Tetrachloroethylene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Toluene	1	0.73 J	0.58 J	< 1	0.41 J	0.26 J	< 1	< 1	< 1	< 1	--	--	--	< 1
Trans-1,2-Dichloroethene	0.28 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	0.48 J *
Trans-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Trans-1,4-Dichloro-2-Butene	< 2	--	< 2	< 2	< 2	< 2	< 2	--	< 2	< 2	--	--	--	--
Trichloroethene	9.7	6.6	5.3	6.2 H	< 1	< 1	< 1	< 1	0.53 J	< 1	--	--	--	2.4
Trichlorofluoromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--	--	< 1
Vinyl Acetate	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	--	--	--	< 2
Vinyl Chloride	< 0.8	< 1	< 1	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	--	--	--	< 1
Xylenes (Total)	< 3	< 1	< 1	< 1	< 3	< 3	< 3	< 1	< 1	< 1	--	--	--	< 1
Dissolved Gases (µg/L)														
Ethane	1.5 J	1.4	1 J	1.8	< 1.5	< 1.5	< 1.5	< 1.1	< 1.1	0.59 J	--	--	--	--
Ethene	1.8	1.9	2.8	12	< 1.5	< 1.5	< 1.5	< 1	3.5	0.71 J	--	--	--	--
Methane	470	660	2300	3300	520	340	160	350	740	220	--	--	--	--
Metals (mg/L)														
Sodium	75.1	82	33	62	5.67	4.67	4.19	3.8	27	3.5	1.57	1.48	1.59	1.2
Iron (Ferrous)	0	1	--	--	--	0.5	2.5	1	--	--	--	--	--	--
General Chemistry (mg/L)	--	--			--	--	--	--			--	--	--	--
Bromide	--	--	--	--	--	--	--	< 0.5	--	--	--	--	--	< 0.5
Chloride-Cl	8.35	5.5	--	--	6.78	6.06	7.28	4.9	--	--	--	--	--	1.9
Fluoride	--	--	--	--	--	--	--	0.2	--	--	--	--	--	0.074 J
Nitrate-N	< 0.1	< 0.05	--	--	0.104	0.173	0.174	--	--	--	--	--	--	--
Sulfate	24.3	21	16	22	16	15.6	19.1	16	2	15	1.07	1.27	0.819	1.1
TOC	10.6	1	0.7 J	0.76 J	0.647 J	0.745 J	< 1	< 1	16	< 1	--	--	--	< 1

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Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G74- PORT1	OLF-G74- PORT1	OLF-G74- PORT2	OLF-G74- PORT2	OLF-G74- PORT2	OLF-G74- PORT2	OLF-G74- PORT2	OLF-G74- PORT2	OLF-G74- PORT2	OLF-G74- PORT3	OLF-G74- PORT3	OLF-G74- PORT3	OLF-G74- PORT3	OLF-G74- PORT3
Date	11/12/18	5/1/19	8/11/17	11/7/17	2/13/18	5/16/18	11/12/18	5/1/19	8/11/17	11/7/17	2/13/18	5/16/18	11/12/18	5/1/19
VOC (µg/L)														
1,1,1,2-Tetrachloroethane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	4	3.3 H	--	--	--	160	89	39 H	--	--	--	1.6	2.5	< 1
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	< 1	--	--	--	--	< 1	< 1	--	--	--	--	< 1	< 1
1,1,2-Trichloroethane	< 1	< 1	--	--	--	7.8	9	2.3 H	--	--	--	0.67 J	1	< 1
1,1-Dichloroethane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,1-Dichloroethene	0.42 J	< 1	--	--	--	< 5	0.46 J	< 1	--	--	--	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,2,3-Trichlorobenzene	< 5	< 5	--	--	--	< 25	< 5	< 5	--	--	--	< 5	< 5	< 5
1,2,3-Trichloropropane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 5	< 5	--	--	--	< 25	< 5	< 5	--	--	--	< 5	< 5	< 5
1,2,4-Trimethylbenzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,2-Dibromo-3-Chloropropane	< 5	< 5	--	--	--	< 25	< 5	< 5	--	--	--	< 5	< 5	< 5
1,2-Dibromoethane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	--	--	--	< 5	0.5 J	0.53 J H	--	--	--	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
2-Butanone (MEK)	< 10	< 10	--	--	--	< 50	7.5 J	< 10	--	--	--	< 10	< 10	< 10
2-Chlorotoluene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
2-Hexanone	< 10	< 10	--	--	--	< 50	< 10	< 10	--	--	--	< 10	< 10	< 10
4-Chlorotoluene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
4-Methyl-2-Pentanone (MIBK)	< 10	< 10	--	--	--	< 50	< 10	< 10	--	--	--	< 10	< 10	< 10
Acetone	< 10	< 10	--	--	--	< 50	< 10	< 10	--	--	--	< 10	< 10	< 10
Acrylonitrile	< 20	< 20	--	--	--	--	< 20	< 20	--	--	--	--	< 20	< 20
Benzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Bromobenzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Bromochloromethane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Bromoform	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Bromomethane	< 5	< 5	--	--	--	< 25	< 5	< 5	--	--	--	< 5	< 5	< 5
Carbon Disulfide	< 2	< 2	--	--	--	< 10	< 2	< 2	--	--	--	< 2	< 2	< 2
Carbon Tetrachloride	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Chlorobenzene	< 1	< 1	--	--	--	< 5	2.7	4.3 H	--	--	--	< 1	< 1	< 1
Chloroethane	< 5	< 5	--	--	--	< 25	< 5	2.8 J H	--	--	--	< 5	< 5	< 5
Chloroform	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Chloromethane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Cis-1,2-Dichloroethene	1.9	1.8 H	--	--	--	140	140	100 H	--	--	--	4.8	13	3.7 H
Cis-1,3-Dichloropropene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G74- PORT1	OLF-G74- PORT1	OLF-G74- PORT2	OLF-G74- PORT2	OLF-G74- PORT2	OLF-G74- PORT2	OLF-G74- PORT2	OLF-G74- PORT2	OLF-G74- PORT3	OLF-G74- PORT3	OLF-G74- PORT3	OLF-G74- PORT3	OLF-G74- PORT3	OLF-G74- PORT3
Dibromomethane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Dichlorodifluoromethane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Ethylbenzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Hexachlorobutadiene	< 5	< 5	--	--	--	< 25	< 5	< 5	--	--	--	< 5	< 5	< 5
Iodomethane	< 10	< 10	--	--	--	--	< 10	< 10	--	--	--	--	< 10	< 10
Isopropyl Benzene (Cumene)	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
m,p-Xylene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Methylene Chloride	< 5	< 5	--	--	--	< 25	< 5	< 5	--	--	--	< 5	< 5	< 5
MTBE	< 10	< 10	--	--	--	< 50	< 10	< 10	--	--	--	< 10	< 10	< 10
Naphthalene	< 5	< 5	--	--	--	< 25	< 5	< 5	--	--	--	< 5	< 5	< 5
N-Butylbenzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
N-Propylbenzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
O-Xylene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
P-Isopropyltoluene (Cymene)	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Sec-Butylbenzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Styrene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Tert-Butylbenzene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Tetrachloroethylene	< 1	< 1	--	--	--	< 5	0.82 J	< 1	--	--	--	< 1	< 1	< 1
Toluene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Trans-1,2-Dichloroethene	0.56 J B (B)	0.48 J H	--	--	--	36	57 B (B)	47 H	--	--	--	1.7 *	3.4 B (B)	0.69 J H
Trans-1,3-Dichloropropene	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Trans-1,4-Dichloro-2-Butene	< 2	< 2	--	--	--	--	< 2	< 2	--	--	--	--	< 2	< 2
Trichloroethene	2.5	2.6 H	--	--	--	100	76	76 H	--	--	--	74	98	35 H
Trichlorofluoromethane	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Vinyl Acetate	< 2	< 2	--	--	--	< 10	< 2	< 2	--	--	--	< 2	< 2	< 2
Vinyl Chloride	< 1	< 1	--	--	--	16	25	14 H	--	--	--	< 1	< 1	< 1
Xylenes (Total)	< 1	< 1	--	--	--	< 5	< 1	< 1	--	--	--	< 1	< 1	< 1
Dissolved Gases (µg/L)														
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/L)														
Sodium	0.990 J	1.1	7.61	7.92	7.77	7.9	6.1	7.8	3.79	3.99	4.17	3.4	2.9	3.3
Iron (Ferrous)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry (mg/L)														
Bromide	--	--	--	--	--	0.29 J	--	--	--	--	--	0.23 J	--	--
Chloride-Cl	--	--	--	--	--	17	--	--	--	--	--	9.4	--	--
Fluoride	--	--	--	--	--	0.16	--	--	--	--	--	0.18	--	--
Nitrate-N	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	< 1	0.52 J	1.49	1.18	0.932	1.4	0.48 J	0.62 J	12.3	11.5	10.1	12	7.9	12
TOC	< 1	< 1	--	--	--	0.65 J	< 1	0.54 J	--	--	--	0.53 J	< 1	< 1

Footnotes on last page.

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G74- PORT4	OLF-G74- PORT4	OLF-G74- PORT4	OLF-G74- PORT4	OLF-G74- PORT4	OLF-G74- PORT5	OLF-G74- PORT5	OLF-G74- PORT5	OLF-G74- PORT5	OLF-G74- PORT5	OLF-G74- PORT5	OLF-G75-S1	OLF-G75-S1	OLF-G75-S1
Date	8/11/17	11/7/17	2/13/18	11/12/18	5/1/19	8/11/17	11/7/17	2/13/18	5/16/18	11/12/18	5/1/19	5/30/18	11/26/18	5/13/19
VOC (µg/L)														
1,1,1,2-Tetrachloroethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	--	< 1	< 1	--	--	--	--	< 1	< 1	--	< 1	< 1
1,1,2-Trichloroethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	--	--	--	< 5	< 5	--	--	--	< 5	< 5	< 5	< 5	< 5	< 5
1,2,3-Trichloropropane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	--	--	--	< 5	< 5	--	--	--	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-Chloropropane	--	--	--	< 5	< 5	--	--	--	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	--	--	--	< 10	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10
2-Chlorotoluene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
2-Hexanone	--	--	--	< 10	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-Pentanone (MIBK)	--	--	--	< 10	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	--	--	--	< 10	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	--	--	--	< 20	< 20	--	--	--	--	< 20	< 20	--	< 20	< 20
Benzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	--	--	--	< 5	< 5	--	--	--	< 5	< 5	< 5	< 5	< 5	< 5
Carbon Disulfide	--	--	--	< 2	< 2	--	--	--	< 2	< 2	< 2	< 2	< 2	< 2
Carbon Tetrachloride	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	--	--	--	< 5	< 5	--	--	--	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	--	--	--	1.5	1.2 H	--	--	--	1.8	1.1	0.78 J H	< 1	< 1	< 1
Cis-1,3-Dichloropropene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G74- PORT4	OLF-G74- PORT4	OLF-G74- PORT4	OLF-G74- PORT4	OLF-G74- PORT4	OLF-G74- PORT5	OLF-G74- PORT5	OLF-G74- PORT5	OLF-G74- PORT5	OLF-G74- PORT5	OLF-G74- PORT5	OLF-G75-S1	OLF-G75-S1	OLF-G75-S1
Dibromomethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	--	--	--	< 5	< 5	--	--	--	< 5	< 5	< 5	< 5	< 5	< 5
Iodomethane	--	--	--	< 10	< 10	--	--	--	--	< 10	< 10	--	< 10	< 10
Isopropyl Benzene (Cumene)	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
m,p-Xylene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	--	--	--	< 5	< 5	--	--	--	< 5	< 5	< 5	< 5	< 5	< 5
MTBE	--	--	--	< 10	< 10	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	--	--	--	< 5	< 5	--	--	--	< 5	< 5	< 5	< 5	< 5	< 5
N-Butylbenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
N-Propylbenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
O-Xylene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
P-Isopropyltoluene (Cymene)	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Sec-Butylbenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Tert-Butylbenzene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,2-Dichloroethene	--	--	--	0.46 J B (B)	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,4-Dichloro-2-Butene	--	--	--	< 2	< 2	--	--	--	--	< 2	< 2	--	< 2	< 2
Trichloroethene	--	--	--	8.3	9.7 H	--	--	--	2.6	3.2	2.4 H	< 1	< 1	< 1
Trichlorofluoromethane	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Acetate	--	--	--	< 2	< 2	--	--	--	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Chloride	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes (Total)	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	< 1	< 1	< 1
Dissolved Gases (µg/L)														
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/L)														
Sodium	14.6	14.3	14.2	4.6	4.5	7.94	7.55	6.58	6.3	4.4	5	--	--	--
Iron (Ferrous)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry (mg/L)	--	--	--											
Bromide	--	--	--	--	--	--	--	--	< 0.5	--	--	--	--	--
Chloride-Cl	--	--	--	--	--	--	--	--	4.9	--	--	--	--	--
Fluoride	--	--	--	--	--	--	--	--	0.22	--	--	--	--	--
Nitrate-N	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	12.8	10.7	9.72	10	14	14.3	13	12.6	14	12	14	--	--	--
TOC	--	--	--	< 1	0.6 J	--	--	--	1.2	< 1	0.7 J	< 1	--	--

Footnotes on last page.

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G75-S2	OLF-G75-S2	OLF-G75-S2	OLF-G75-S3	OLF-G75-S3	OLF-G75-S3	OLF-G75-S4	OLF-G75-S4	OLF-G75-S4	OLF-G75-S5	OLF-G75-S5	OLF-G75-S5	OLF-G75-S6	OLF-G75-S6
Date	5/31/18	11/26/18	5/13/19	5/31/18	11/26/18	5/13/19	5/30/18	11/27/18	5/14/19	5/30/18	11/27/18	5/14/19	5/30/18	11/27/18
VOC (µg/L)														
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	< 1	< 1	--	< 1	< 1	--	< 1	< 1 (UJ)	--	< 1	< 1 (UJ)	--	< 1
1,1,2-Trichloroethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1-Dichloroethene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,2,3-Trichlorobenzene	< 5	< 5	< 5	--	< 5	< 5	< 5	< 5	< 5 (UJ)	< 5	< 5	< 5 (UJ)	< 5	< 5
1,2,3-Trichloropropane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,2,4-Trichlorobenzene	< 5	< 5	< 5	--	< 5	< 5	< 5	< 5	< 5 (UJ)	< 5	< 5	< 5 (UJ)	< 5	< 5
1,2,4-Trimethylbenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,2-Dibromo-3-Chloropropane	< 5	< 5	< 5	--	< 5	< 5	< 5	< 5	< 5 (UJ)	< 5	< 5	< 5 (UJ)	< 5	< 5
1,2-Dibromoethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
2-Butanone (MEK)	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10 (UJ)	< 10	< 10	< 10 (UJ)	< 10	< 10
2-Chlorotoluene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
2-Hexanone	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10 (UJ)	< 10	< 10	< 10 (UJ)	< 10	< 10
4-Chlorotoluene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
4-Methyl-2-Pentanone (MIBK)	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10 (UJ)	< 10	< 10	< 10 (UJ)	< 10	< 10
Acetone	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10 (UJ)	< 10	< 10	< 10 (UJ)	< 10	< 10
Acrylonitrile	--	< 20	< 20	--	< 20	< 20	--	< 20	< 20 (UJ)	--	< 20	< 20 (UJ)	--	< 20
Benzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Bromobenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Bromochloromethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Bromoform	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Bromomethane	< 5	< 5	< 5	--	< 5	< 5	< 5	< 5	< 5 (UJ)	< 5	< 5	< 5 (UJ)	< 5	< 5
Carbon Disulfide	< 2	< 2	< 2	--	< 2	< 2	< 2	< 2	< 2 (UJ)	< 2	< 2	< 2 (UJ)	< 2	< 2
Carbon Tetrachloride	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Chlorobenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Chloroethane	< 5	< 5	< 5	--	< 5	< 5	< 5	< 5	< 5 (UJ)	< 5	< 5	< 5 (UJ)	< 5	< 5
Chloroform	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Chloromethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Cis-1,2-Dichloroethene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Cis-1,3-Dichloropropene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G75-S2	OLF-G75-S2	OLF-G75-S2	OLF-G75-S3	OLF-G75-S3	OLF-G75-S3	OLF-G75-S4	OLF-G75-S4	OLF-G75-S4	OLF-G75-S5	OLF-G75-S5	OLF-G75-S5	OLF-G75-S6	OLF-G75-S6
Dibromomethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Dichlorodifluoromethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Ethylbenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Hexachlorobutadiene	< 5	< 5	< 5	--	< 5	< 5	< 5	< 5	< 5 (UJ)	< 5	< 5	< 5 (UJ)	< 5	< 5
Iodomethane	--	< 10	< 10	--	< 10	< 10	--	< 10	< 10 (UJ)	--	< 10	< 10 (UJ)	--	< 10
Isopropyl Benzene (Cumene)	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
m,p-Xylene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Methylene Chloride	< 5	< 5	< 5	--	< 5	< 5	< 5	< 5	< 5 (UJ)	< 5	< 5	< 5 (UJ)	< 5	< 5
MTBE	< 10	< 10	< 10	--	< 10	< 10	< 10	< 10	< 10 (UJ)	< 10	< 10	< 10 (UJ)	< 10	< 10
Naphthalene	< 5	< 5	< 5	--	< 5	< 5	< 5	< 5	< 5 (UJ)	< 5	< 5	< 5 (UJ)	< 5	< 5
N-Butylbenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
N-Propylbenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
O-Xylene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
P-Isopropyltoluene (Cymene)	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Sec-Butylbenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Styrene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Tert-Butylbenzene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Tetrachloroethylene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Toluene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Trans-1,2-Dichloroethene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Trans-1,3-Dichloropropene	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Trans-1,4-Dichloro-2-Butene	--	< 2	< 2	--	< 2	< 2	--	< 2	< 2 (UJ)	--	< 2	< 2 (UJ)	--	< 2
Trichloroethene	< 1	0.81 J	< 1	--	3.4	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Trichlorofluoromethane	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Vinyl Acetate	< 2	< 2	< 2	--	< 2	< 2	< 2	< 2	< 2 (UJ)	< 2	< 2	< 2 (UJ)	< 2	< 2
Vinyl Chloride	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Xylenes (Total)	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	< 1 (UJ)	< 1	< 1	< 1 (UJ)	< 1	< 1
Dissolved Gases (µg/L)														
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/L)														
Sodium	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron (Ferrous)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry (mg/L)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromide	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloride-Cl	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-N	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC	< 1	--	--	< 1	--	--	< 1	--	--	< 1	--	--	< 1	--

Footnotes on last page.

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G75-S6	OLF-G77	OLF-G77	OLF-G77	OLF-G77	OLF-G77	OLF-G77	OLF-G78	OLF-G78	OLF-G78	OLF-G78	OLF-G78	OLF-G78	PPMP-229-GP12	PPMP-229-GP12	PPMP-229-GP12	PPMP-229-GP12
Date	5/14/19	8/14/17	11/13/17	2/15/18	5/17/18	11/13/18	5/6/19	8/14/17	11/13/17	2/15/18	5/16/18	11/12/18	5/6/19	11/9/17	5/17/18	11/14/18	5/14/19
VOC (µg/L)																	
1,1,1,2-Tetrachloroethane	< 1 (UJ)	0.24 J	0.22 J	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,1,1-Trichloroethane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,1,2,2-Tetrachloroethane	< 1 (UJ)	1700	1200	1400	1200	1000	1200	--	9.9	--	18	8	9.8	< 1	< 1	< 1	< 1 (UJ)
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1 (UJ)	< 1	< 1	< 1	--	< 10	< 1	--	< 1	--	--	< 1	< 1	< 1	--	< 1	< 1 (UJ)
1,1,2-Trichloroethane	< 1 (UJ)	29	28	33	26	27	32	--	1.3	--	0.58 J	0.39 J	< 1	< 1	< 1	< 1	< 1 (UJ)
1,1-Dichloroethane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,1-Dichloroethene	< 1 (UJ)	0.66 J	0.75 J	0.69 J	0.75 J	< 10	0.79 J	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,1-Dichloropropene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,2,3-Trichlorobenzene	< 5 (UJ)	< 1	< 1	< 1	< 5	< 50	< 5	--	< 1	--	< 5	< 5	< 5	< 1	< 5	< 5	< 5 (UJ)
1,2,3-Trichloropropane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,2,4-Trichlorobenzene	< 5 (UJ)	< 1	< 1	< 1	< 5	< 50	< 5	--	< 1	--	< 5	< 5	< 5	< 1	< 5	< 5	< 5 (UJ)
1,2,4-Trimethylbenzene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,2-Dibromo-3-Chloropropane	< 5 (UJ)	< 2	< 2	< 2	< 5	< 50	< 5	--	< 2	--	< 5	< 5	< 5	< 2	< 5	< 5	< 5 (UJ)
1,2-Dibromoethane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,2-Dichlorobenzene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,2-Dichloroethane	< 1 (UJ)	< 1	0.44 J	0.41 J	0.59 J	< 10	0.7 J	--	1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,2-Dichloropropane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,3,5-Trimethylbenzene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,3-Dichlorobenzene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,3-Dichloropropane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
1,4-Dichlorobenzene	< 1 (UJ)	0.48 J	0.45 J	0.29 J	< 1	< 10	< 1	--	0.28 J	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
2,2-Dichloropropane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
2-Butanone (MEK)	< 10 (UJ)	< 10	< 10	< 10	< 10	< 100	< 10	--	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJ)
2-Chlorotoluene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
2-Hexanone	< 10 (UJ)	< 10	< 10	< 10	< 10	< 100	< 10	--	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJ)
4-Chlorotoluene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
4-Methyl-2-Pentanone (MIBK)	< 10 (UJ)	< 10	< 10	< 10	< 10	< 100	< 10	--	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJ)
Acetone	< 10 (UJ)	< 10	< 10	< 10	< 10	< 100	< 10	--	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10 (UJ)
Acrylonitrile	< 20 (UJ)	< 10	< 10	< 10	--	< 200	< 20	--	< 10	--	--	< 20	< 20	< 10	--	< 20	< 20 (UJ)
Benzene	< 1 (UJ)	0.43 J	0.38 J	0.23 J	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Bromobenzene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Bromochloromethane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Bromodichloromethane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Bromoform	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Bromomethane	< 5 (UJ)	< 2	< 2	< 2	< 5	< 50	< 5	--	< 2	--	< 5	< 5	< 5	< 2	< 5	< 5	< 5 (UJ)
Carbon Disulfide	< 2 (UJ)	< 1	< 1	< 1	< 2	< 20	< 2	--	< 1	--	< 2	< 2	< 2	< 1	< 2	< 2	< 2 (UJ)
Carbon Tetrachloride	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Chlorobenzene	< 1 (UJ)	39	30	18	16	9.4 J	21	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Chloroethane	< 5 (UJ)	< 2	< 2	< 2	< 5	< 50	< 5	--	< 2	--	< 5	< 5	< 5	< 2	< 5	< 5	< 5 (UJ)
Chloroform	< 1 (UJ)	0.47 J	0.43 J	0.34 J	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Chloromethane	< 1 (UJ)	< 2	< 2	< 2	< 1	< 10	< 1	--	< 2	--	< 1	< 1	< 1	< 2	< 1	< 1	< 1 (UJ)
Cis-1,2-Dichloroethene	< 1 (UJ)	170	250	290	280	230	350	--	6.3	--	4.2	3.2	2	< 1	< 1	< 1	< 1 (UJ)
Cis-1,3-Dichloropropene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Dibromochloromethane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)

Table D.1: On-Site Groundwater Analytical Results First Two Years Post Remediation

Well ID	OLF-G75-S6	OLF-G77	OLF-G77	OLF-G77	OLF-G77	OLF-G77	OLF-G77	OLF-G78	OLF-G78	OLF-G78	OLF-G78	OLF-G78	OLF-G78	PPMP-229-GP12	PPMP-229-GP12	PPMP-229-GP12	PPMP-229-GP12
Dibromomethane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Dichlorodifluoromethane	< 1 (UJ)	0.46 J	0.32 J	< 2	< 1	< 10	< 1	--	< 2	--	< 1	< 1	< 1	< 2	< 1	< 1	< 1 (UJ)
Ethylbenzene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Hexachlorobutadiene	< 5 (UJ)	< 1	< 1	< 1	< 5	< 50	< 5	--	< 1	--	< 5	< 5	< 5	< 1	< 5	< 5	< 5 (UJ)
Iodomethane	< 10 (UJ)	< 2	< 2	< 2	--	< 100	< 10	--	< 2	--	--	< 10	< 10	< 2	--	< 10	< 10 (UJ)
Isopropyl Benzene (Cumene)	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
m,p-Xylene	< 1 (UJ)	--	--	--	< 1	< 10	< 1	--	--	--	< 1	< 1	< 1	--	< 1	< 1	< 1 (UJ)
Methylene Chloride	< 5 (UJ)	0.57 J	0.58 J	< 2	< 5	< 50	< 5	--	< 2	--	< 5	< 5	< 5	< 2	< 5	< 5	< 5 (UJ)
MTBE	< 10 (UJ)	< 1	< 1	< 1	0.3 J	< 100	< 10	--	< 1	--	< 10	< 10	< 10	< 1	< 10	< 10	< 10 (UJ)
Naphthalene	< 5 (UJ)	< 2	< 2	< 2	< 5	< 50	< 5	--	< 2	--	< 5	< 5	< 5	< 2	< 5	< 5	< 5 (UJ)
N-Butylbenzene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
N-Propylbenzene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
O-Xylene	< 1 (UJ)	--	--	--	< 1	< 10	< 1	--	--	--	< 1	< 1	< 1	--	< 1	< 1	< 1 (UJ)
P-Isopropyltoluene (Cymene)	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Sec-Butylbenzene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Styrene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Tert-Butylbenzene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Tetrachloroethylene	< 1 (UJ)	13	9.7	7.1	7	< 10	6.7	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Toluene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Trans-1,2-Dichloroethene	< 1 (UJ)	64	48	52	53	100	110	--	2.2	--	1.6	1.1	0.63 J	< 1	< 1	< 1	< 1 (UJ)
Trans-1,3-Dichloropropene	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Trans-1,4-Dichloro-2-Butene	< 2 (UJ)	< 2	< 2	< 2	--	< 20	< 2	--	< 2	--	--	< 2	< 2	< 2	--	< 2	< 2 (UJ)
Trichloroethene	< 1 (UJ)	1400	1100	870	790	620	670	--	12	--	22	7	11	< 1	< 1	< 1	< 1 (UJ)
Trichlorofluoromethane	< 1 (UJ)	< 1	< 1	< 1	< 1	< 10	< 1	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Vinyl Acetate	< 2 (UJ)	< 2	< 2	< 2	< 2	< 20	< 2	--	< 2	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2 (UJ)
Vinyl Chloride	< 1 (UJ)	3.8	2.2	3.2	5.6	< 10	9.4	--	0.2 J	--	< 1	< 1	< 1	< 0.8	< 1	< 1	< 1 (UJ)
Xylenes (Total)	< 1 (UJ)	< 3	< 3	< 3	< 1	< 10	< 1	--	< 3	--	< 1	< 1	< 1	< 3	< 1	< 1	< 1 (UJ)
Dissolved Gases (µg/L)																	
Ethane	--	0.81 J	0.76 J	< 1.5	0.6 J	< 1.1	1.2	--	--	--	--	--	--	--	--	--	--
Ethene	--	< 1.5	< 1.5	< 1.5	< 1	< 1	< 1	--	--	--	--	--	--	--	--	--	--
Methane	--	75	48	41	72	62	260	--	--	--	--	--	--	--	--	--	--
Metals (mg/L)																	
Sodium	--	14.4	14	15.1	15	15	13	5.33	--	5.99	--	1.5	3.7	--	--	--	--
Iron (Ferrous)	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry (mg/L)																	
Bromide	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloride-Cl	--	28.4	26.9	234	21	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-N	--	0.0885 J	0.099 J	0.102	0.19	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	--	5.59	4.26	19.2	4	2.3	2.5	0.525	--	0.398 J	--	< 1	< 1	--	--	--	--
TOC	--	1.62	1.43	2.4	1.5	< 1	1.1	--	0.807 J	--	0.53 J	--	--	--	--	--	--

Footnotes on last page.

VOC = Volatile organic compounds

Lab Flag

B - Analyte detected in an associated blank.

F1 = MS and/or MSD recovery outside acceptance criteria.

F2 = MS/MSD RPD outlier.

H - Holding time exceeded for extraction and/or analysis.

J = Result is estimated; detected between the method detection limit and the reporting limit.

Validation Flag (in parentheses)

B - Analyte detected in an associated blank.

J = Result is estimated based on data validation.

UB = Analyte considered not detected based on concentration in an associated blank.

UJ = Reporting limit is estimated based on data validation.

Ferrous iron measured in field.

Table D.2
Off-Site Groundwater Analytical Results for Year 1

Table D.2: Off-Site Groundwater Analytical Results

Well ID	OLF-G12	OLF-G12	OLF-G12	OLF-G12	OLF-G12	OLF-G12	OLF-G18	OLF-G18	OLF-G18	OLF-G18	OLF-G21	OLF-G21	OLF-G21	OLF-G21	OLF-G22	OLF-G22	OLF-G22	OLF-G22	OLF-G22
Date	8/9/17	11/16/17	2/19/18	5/22/18	11/19/18	5/9/19	11/15/17	5/23/18	11/19/18	5/9/19	11/14/17	5/23/18	11/19/18	5/9/19	8/9/17	11/15/17	2/19/18	5/22/18	11/27/18
VOC (µg/L)																			
1,1,1,2-Tetrachloroethane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,1,1-Trichloroethane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,1,2,2-Tetrachloroethane	--	360	--	350	310	230	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	190	--	140	100
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	< 1	--	--	< 5	< 5	< 1	--	< 1	< 1	< 1	--	< 1	< 1	--	< 1	--	--	< 1
1,1,2-Trichloroethane	--	6.5	--	6	6.5	4.7 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	5.3	--	4.1 J	3
1,1-Dichloroethane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,1-Dichloroethene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	0.36 J	--	< 5	< 1
1,1-Dichloropropene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,2,3-Trichlorobenzene	--	< 1	--	< 25	< 25	< 25	< 1	< 5	< 5	< 5	< 1	< 5	< 5	< 5	--	< 1	--	< 25	< 5
1,2,3-Trichloropropane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,2,4-Trichlorobenzene	--	< 1	--	< 25	< 25	< 25	< 1	< 5	< 5	< 5	< 1	< 5	< 5	< 5	--	< 1	--	< 25	< 5
1,2,4-Trimethylbenzene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,2-Dibromo-3-Chloropropane	--	< 2	--	< 25	< 25	< 25	< 2	< 5	< 5	< 5	< 2	< 5	< 5	< 5	--	< 2	--	< 25	< 5
1,2-Dibromoethane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,2-Dichlorobenzene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,2-Dichloroethane	--	< 1	--	< 5	8.6	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	0.34 J	--	< 5	0.52 J
1,2-Dichloropropane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,3,5-Trimethylbenzene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,3-Dichlorobenzene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,3-Dichloropropane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
1,4-Dichlorobenzene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
2,2-Dichloropropane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
2-Butanone (MEK)	--	< 10	--	< 50	< 50	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	--	< 50	< 10
2-Hexanone	--	< 10	--	< 50	< 5	< 5	< 10	< 10	< 1	< 1	< 10	< 10	< 1	< 1	--	< 10	--	< 50	< 1
4-Chlorotoluene	--	< 1	--	< 5	< 50	< 50	< 1	< 1	< 10	< 10	< 1	< 1	< 10	< 10	--	< 1	--	< 5	< 10
4-Methyl-2-Pentanone (MIBK)	--	< 10	--	< 50	< 5	< 5	< 10	< 10	< 1	< 1	< 10	< 10	< 1	< 1	--	< 10	--	< 50	< 1
Acetone	--	< 10	--	< 50	< 50	< 50	< 10	8.8 J	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	--	< 50	< 10
Acrylonitrile	--	< 10	--	--	< 50	< 50	< 10	--	< 10	< 10	< 10	--	< 10	< 10	--	< 10	--	--	< 10
Benzene	--	< 1	--	< 5	< 100	< 100	< 1	< 1	< 20	< 20	< 1	< 1	< 20	< 20	--	< 1	--	< 5	< 20
Bromobenzene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Bromochloromethane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Bromodichloromethane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Bromoform	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Bromomethane	--	< 2	--	< 25	< 5	< 5	< 2	< 5	< 1	< 1	< 2	< 5	< 1	< 1	--	< 2	--	< 25	< 1
Carbon Disulfide	--	< 1	--	< 10	< 25	< 25	< 1	< 2	< 5	< 5	< 1	< 2	< 5	< 5	--	< 1	--	< 10	< 5
Carbon Tetrachloride	--	< 1	--	< 5	< 10	< 10	< 1	< 1	< 2	< 2	< 1	< 1	< 2	< 2	--	< 1	--	< 5	< 2
Chlorobenzene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	0.27 J	--	< 5	< 1
Chloroethane	--	< 2	--	< 25	< 5	< 5	< 2	< 5	< 1	< 1	< 2	< 5	< 1	< 1	--	< 2	--	< 25 *	3.5
Chloroform	--	< 1	--	< 5	< 25	< 25	< 1	< 1	< 5	< 5	< 1	< 1	< 5	< 5	--	< 1	--	< 5	< 5
Chloromethane	--	< 2	--	< 5	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 1	< 1	--	< 2	--	< 5	< 1
Cis-1,2-Dichloroethene	--	29	--	35	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	87	--	100	< 1

Table D.2: Off-Site Groundwater Analytical Results

Well ID	OLF-G12	OLF-G12	OLF-G12	OLF-G12	OLF-G12	OLF-G12	OLF-G18	OLF-G18	OLF-G18	OLF-G18	OLF-G21	OLF-G21	OLF-G21	OLF-G21	OLF-G22	OLF-G22	OLF-G22	OLF-G22	OLF-G22
Cis-1,3-Dichloropropene	--	< 1	--	< 5	30	42	< 1	< 1	< 1	4.5	< 1	< 1	< 1	< 1	--	< 1	--	< 5	59
Dibromochloromethane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Dibromomethane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Dichlorodifluoromethane	--	< 2	--	< 5	< 5	< 5	< 2	< 1	< 1	< 1	< 2	< 1	< 1	< 1	--	< 2	--	< 5	< 1
Ethylbenzene	--	< 1	--	< 5	< 5	17	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Hexachlorobutadiene	--	< 1	--	< 25	< 5	< 5	< 1	< 5	< 1	< 1	< 1	< 5	< 1	< 1	--	< 1	--	< 25	< 1
Iodomethane	--	< 2	--	--	< 25	< 25	< 2	--	< 5	< 5	< 2	--	< 5	< 5	--	< 2	--	--	< 5
Isopropyl Benzene (Cumene)	--	< 1	--	< 5	< 50	< 50	< 1	< 1	< 10	< 10	< 1	< 1	< 10	< 10 (UJ)	--	< 1	--	< 5	< 10
m,p-Xylene	--	--	--	< 5	< 5	< 5	--	< 1	< 1	< 1	--	< 1	< 1	< 1	--	--	--	< 5	< 1
Methylene Chloride	--	0.59 J	--	< 25	< 5	< 5	< 2	< 5	< 1	< 1	< 2	< 5	< 1	< 1	--	< 2	--	< 25	< 1
MTBE	--	< 1	--	< 50	< 25	< 25	< 1	< 10	< 5	< 5	< 1	0.3 J	< 5	< 5	--	< 1	--	< 50	< 5
Naphthalene	--	< 2	--	< 25	< 50	< 50	< 2	< 5	< 10	< 10	< 2	< 5	< 10	< 10	--	< 2	--	< 25	< 10
N-Butylbenzene	--	< 1	--	< 5	< 25	< 25	< 1	< 1	< 5	< 5	< 1	< 1	< 5	< 5	--	< 1	--	< 5	< 5
N-Propylbenzene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
O-Xylene	--	--	--	< 5	< 5	< 5	--	< 1	< 1	< 1	--	< 1	< 1	< 1	--	--	--	< 5	< 1
P-Isopropyltoluene (Cymene)	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
2-Chlorotoluene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Sec-Butylbenzene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Styrene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Tert-Butylbenzene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Tetrachloroethylene	--	2.8	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	1.3	--	< 5	1
Toluene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Trans-1,2-Dichloroethene	--	12	--	13	11	7.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	10	--	15	13
Trans-1,3-Dichloropropene	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Trans-1,4-Dichloro-2-Butene	--	< 2	--	--	< 10	< 10	< 2	--	< 2	< 2	< 2	--	< 2	< 2	--	< 2	--	--	< 2
Trichloroethene	--	230	--	240	200	170	0.59 J	< 1	< 1	52	0.63 J	< 1	< 1	< 1	--	180	--	160	110
Trichlorofluoro-methane	--	< 1	--	< 5	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	< 1	--	< 5	< 1
Vinyl Acetate	--	< 2	--	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	--	< 2	--	< 10	< 2
Vinyl Chloride	--	< 0.8	--	< 5	< 5	< 5	< 0.8	< 1	< 1	< 1	< 0.8	< 1	< 1	< 1	--	< 0.8	--	< 5	1.4
Xylenes (Total)	--	< 3	--	< 5	< 5	< 5	< 3	< 1	< 1	< 1	< 3	< 1	< 1	< 1	--	< 3	--	< 5	< 1
Metals (mg/L)																			
Sodium	4.13	4.78	5.07	3.9	3.7	3.8	--	< 1	--	--	--	--	--	--	6.98	7.02	7.06	6.7	6.9
General Chemistry (mg/L)																			
Sulfate	0.921	1.81	1.23	0.83 J	0.85 J	0.73 J	--	1.6	--	--	--	--	--	--	1.46	1.58	1.43	2.1	1.1
TOC	--	0.814 J	--	< 1			--	--	--	--	--	--	--	--	--	0.978 J	--	0.73 J	--

Footnotes on last page.

Table D.2: Off-Site Groundwater Analytical Results

Well ID	OLF-G22	OLF-G23	OLF-G23	OLF-G23	OLF-G23	OLF-G23	OLF-G23	OLF-G24	OLF-G24	OLF-G24	OLF-G24	OLF-G31	OLF-G31	OLF-G31	OLF-G31	OLF-G32	OLF-G32	OLF-G32
Date	5/9/19	8/9/17	11/14/17	2/16/18	5/21/18	11/15/18	5/8/19	8/9/17	11/14/17	2/19/18	5/21/18	11/9/17	5/18/18	11/26/18	5/15/19	11/9/17	5/18/18	11/26/18
VOC (µg/L)																		
1,1,1,2-Tetrachloroethane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	58	--	260	--	200	230	150	--	0.29 J	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	--	< 1	--	--	< 5	< 5	--	< 1	--	--	< 1	--	< 1	< 1	< 1	--	< 1
1,1,2-Trichloroethane	2.3	--	6.5	--	5.5	7.7	5.5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	< 1	--	0.53 J	--	0.5 J	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	< 5	--	< 1	--	< 5	< 25	< 25	--	< 1	--	< 5	< 1	< 5	< 5	< 5	< 1	< 5	< 5
1,2,3-Trichloropropane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 5	--	< 1	--	< 5	< 25	< 25	--	< 1	--	< 5	< 1	< 5	< 5	< 5	< 1	< 5	< 5
1,2,4-Trimethylbenzene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-Chloropropane	< 5	--	< 2	--	< 5	< 25	< 25	--	< 2	--	< 5	< 2	< 5	< 5	< 5	< 2	< 5	< 5
1,2-Dibromoethane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	--	0.33 J	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	< 10	--	< 10	--	< 10	< 50	< 50	--	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	< 1	--	< 10	--	< 10	< 5	< 5	--	< 10	--	< 10	< 10	< 10	< 1	< 1	< 10	< 10	< 1
4-Chlorotoluene	< 10	--	< 1	--	< 1	< 50	< 50	--	< 1	--	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 10
4-Methyl-2-Pentanone (MIBK)	< 1	--	< 10	--	< 10	< 5	< 5	--	< 10	--	< 10	< 10	< 10	< 1	< 1	< 10	< 10	< 1
Acetone	< 10	--	< 10	--	< 10	< 50	< 50	--	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	< 10	--	< 10	--	--	< 50	< 50	--	< 10	--	--	< 10	--	< 10	< 10	< 10	--	< 10
Benzene	< 20	--	< 1	--	< 1	< 100	< 100	--	< 1	--	< 1	< 1	< 1	< 20	< 20	< 1	< 1	< 20
Bromobenzene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	< 1	--	< 2	--	< 5	< 5	< 5	--	< 2	--	< 5	< 2	< 5	< 1	< 1	< 2	< 5	< 1
Carbon Disulfide	< 5	--	< 1	--	< 2	< 25	< 25	--	< 1	--	< 2	< 1	< 2	< 5	< 5 (UJ)	< 1	< 2	< 5
Carbon Tetrachloride	< 2	--	< 1	--	< 1	< 10	< 10	--	< 1	--	< 1	< 1	< 1	< 2	< 2	< 1	< 1	< 2
Chlorobenzene	< 1	--	< 1	--	2.5	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	3.4	--	< 2	--	< 5	4.4 J	7.5	--	< 2	--	< 5	< 2	< 5	< 1	< 1	< 2	< 5	< 1
Chloroform	< 5	--	< 1	--	< 1	< 25	< 25	--	< 1	--	< 1	< 1	< 1	< 5	< 5	< 1	< 1	< 5
Chloromethane	< 1	--	< 2	--	< 1	< 5	< 5	--	< 2	--	< 1	< 2	< 1	< 1	< 1	< 2	< 1	< 1
Cis-1,2-Dichloroethene	< 1	--	160	--	140	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table D.2: Off-Site Groundwater Analytical Results

Well ID	OLF-G22	OLF-G23	OLF-G23	OLF-G23	OLF-G23	OLF-G23	OLF-G23	OLF-G24	OLF-G24	OLF-G24	OLF-G24	OLF-G31	OLF-G31	OLF-G31	OLF-G31	OLF-G32	OLF-G32	OLF-G32
Cis-1,3-Dichloropropene	45	--	< 1	--	< 1	130	93	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	< 1	--	< 2	--	< 1	< 5	< 5	--	< 2	--	< 1	< 2	< 1	< 1	< 1	< 2	< 1	< 1
Ethylbenzene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	--	< 1	--	< 5	< 5	< 5	--	< 1	--	< 5	< 1	< 5	< 1	< 1	< 1	< 5	< 1
Iodomethane	< 5	--	< 2	--	--	< 25	< 25	--	< 2	--	--	< 2	--	< 5	< 5	< 2	--	< 5
Isopropyl Benzene (Cumene)	< 10 (UJ)	--	< 1	--	< 1	< 50	< 50	--	< 1	--	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 10
m,p-Xylene	< 1	--	--	--	< 1	< 5	< 5	--	--	--	< 1	--	< 1	< 1	< 1	--	< 1	< 1
Methylene Chloride	< 1	--	< 2	--	< 5	< 5	< 5	--	< 2	--	< 5	< 2	< 5	< 1	< 1	< 2	< 5	< 1
MTBE	< 5	--	< 1	--	< 10	20 J	< 25	--	< 1	--	< 10	< 1	< 10	< 5	< 5	< 1	< 10	< 5
Naphthalene	< 10	--	< 2	--	< 5	< 50	< 50	--	< 2	--	< 5	< 2	< 5	< 10	< 10	< 2	< 5	< 10
N-Butylbenzene	< 5	--	< 1	--	< 1	< 25	< 25	--	< 1	--	< 1	< 1	< 1	< 5	< 5	< 1	< 1	< 5
N-Propylbenzene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-Xylene	< 1	--	--	--	< 1	< 5	< 5	--	--	--	< 1	--	< 1	< 1	< 1	--	< 1	< 1
P-Isopropyltoluene (Cymene)	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sec-Butylbenzene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert-Butylbenzene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	0.96 J	--	1.4	--	1.3	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,2-Dichloroethene	9.7	--	12	--	22	23	30	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,4-Dichloro-2-Butene	< 2	--	< 2	--	--	< 10	< 10	--	< 2	--	--	< 2	--	< 2	< 2	< 2	< 2	< 2
Trichloroethene	100	--	170	--	150	160	150	--	1.1	--	< 1	< 1	0.57 J	< 1	< 1	< 1	< 1	< 1
Trichlorofluoro-methane	< 1	--	< 1	--	< 1	< 5	< 5	--	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Acetate	< 2	--	< 2	--	< 2	< 10	< 10	--	< 2	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Chloride	0.7 J	--	0.51 J	--	2.8	3.2 J	< 5	--	< 0.8	--	< 1	< 0.8	< 1	< 1	< 1 (UJ)	< 0.8	< 1	< 1
Xylenes (Total)	< 1	--	< 3	--	< 1	< 5	< 5	--	< 3	--	< 1	< 3	< 1	< 1	< 1	< 3	< 1	< 1
Metals (mg/L)																		
Sodium	6.7	6.44	6.56	6.41	--	5.9	6.2	1.62	2.18	2.42	< 1	--	--	--	--	--	--	--
General Chemistry (mg/L)																		
Sulfate	0.8 J F1 F2	1.49	1.35	1.36	--	0.9 J	0.98 J	1.01	0.659	0.646	1.1	--	--	--	--	--	--	--
TOC	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes on last page.

Table D.2: Off-Site Groundwater Analytical Results

Well ID	OLF-G32	OLF-G33	OLF-G33	OLF-G33	OLF-G33	OLF-G33	OLF-G34	OLF-G34	OLF-G34	OLF-G34	OLF-G34	OLF-G34	OLF-G35	OLF-G35	OLF-G35	OLF-G35	OLF-G35	OLF-G35	OLF-G36
Date	5/14/19	8/10/17	11/14/17	2/15/18	5/21/18	11/20/18	8/10/17	11/14/17	2/15/18	5/30/18	11/19/18	8/9/17	11/15/17	2/16/18	5/21/18	11/15/18	5/8/19	8/10/17	
VOC (µg/L)																			
1,1,1,2-Tetrachloroethane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,1,1-Trichloroethane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,1,2,2-Tetrachloroethane	< 1 (UJ)	--	3.4	--	3.8	4.5	--	0.45 J	--	< 1	< 1	--	0.43 J	--	1.8	1.9	< 1	--	
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1 (UJ)	--	< 1	--	--	< 1	--	< 1	--	--	< 1	--	< 1	--	--	< 1	< 1	--	
1,1,2-Trichloroethane	< 1 (UJ)	--	0.79 J	--	0.69 J	0.56 J	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,1-Dichloroethane	< 1 (UJ)	--	0.26 J	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,1-Dichloroethene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,1-Dichloropropene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,2,3-Trichlorobenzene	< 5 (UJ)	--	< 1	--	< 5	< 5	--	< 1	--	< 5	< 5	--	< 1	--	< 5	< 5	< 5	--	
1,2,3-Trichloropropane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,2,4-Trichlorobenzene	< 5 (UJ)	--	< 1	--	< 5	< 5	--	< 1	--	< 5	< 5	--	< 1	--	< 5	< 5	< 5	--	
1,2,4-Trimethylbenzene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,2-Dibromo-3-Chloropropane	< 5 (UJ)	--	< 2	--	< 5	< 5	--	< 2	--	< 5	< 5	--	< 2	--	< 5	< 5	< 5	--	
1,2-Dibromoethane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,2-Dichlorobenzene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,2-Dichloroethane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,2-Dichloropropane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,3,5-Trimethylbenzene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,3-Dichlorobenzene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,3-Dichloropropane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
1,4-Dichlorobenzene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
2,2-Dichloropropane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
2-Butanone (MEK)	< 10 (UJ)	--	< 10	--	< 10	< 10	--	< 10	--	< 10	< 10	--	< 10	--	< 10	< 10	< 10	--	
2-Hexanone	< 1 (UJ)	--	< 10	--	< 10	< 1	--	< 10	--	< 10	< 1	--	< 10	--	< 10	< 1	< 1	--	
4-Chlorotoluene	< 10 (UJ)	--	< 1	--	< 1	< 10	--	< 1	--	< 1	< 10	--	< 1	--	< 1	< 10	< 10	--	
4-Methyl-2-Pentanone (MIBK)	< 1 (UJ)	--	< 10	--	< 10	< 1	--	< 10	--	< 10	< 1	--	< 10	--	< 10	< 1	< 1	--	
Acetone	< 10 (UJ)	--	< 10	--	< 10	< 10	--	< 10	--	16	< 10	--	< 10	--	< 10	< 10	< 10	--	
Acrylonitrile	< 10 (UJ)	--	< 10	--	--	< 10	--	< 10	--	--	< 10	--	< 10	--	--	< 10	< 10	--	
Benzene	< 20 (UJ)	--	< 1	--	< 1	< 20	--	< 1	--	< 1	< 20	--	< 1	--	< 1	< 20	< 20	--	
Bromobenzene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
Bromochloromethane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
Bromodichloromethane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
Bromoform	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
Bromomethane	< 1 (UJ)	--	< 2	--	< 5	< 1	--	< 2	--	< 5	< 1	--	< 2	--	< 5	< 1	< 1	--	
Carbon Disulfide	< 5 (UJ)	--	< 1	--	< 2	< 5	--	< 1	--	< 2	< 5	--	< 1	--	< 2	< 5	< 5	--	
Carbon Tetrachloride	< 2 (UJ)	--	< 1	--	< 1	< 2	--	< 1	--	< 1	< 2	--	< 1	--	< 1	< 2	< 2	--	
Chlorobenzene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	
Chloroethane	< 1 (UJ)	--	< 2	--	< 5	< 1	--	< 2	--	< 5	< 1	--	< 2	--	< 5	< 1	< 1	--	
Chloroform	< 5 (UJ)	--	< 1	--	< 1	< 5	--	< 1	--	< 1	< 5	--	< 1	--	< 1	< 5	< 5	--	
Chloromethane	< 1 (UJ)	--	< 2	--	< 1	< 1	--	< 2	--	< 1	< 1	--	< 2	--	< 1	< 1	< 1	--	
Cis-1,2-Dichloroethene	< 1 (UJ)	--	12	--	13	< 1	--	< 1	--	0.41 J	< 1	--	< 1	--	2.2	< 1	< 1	--	

Table D.2: Off-Site Groundwater Analytical Results

Well ID	OLF-G32	OLF-G33	OLF-G33	OLF-G33	OLF-G33	OLF-G33	OLF-G34	OLF-G34	OLF-G34	OLF-G34	OLF-G34	OLF-G35	OLF-G35	OLF-G35	OLF-G35	OLF-G35	OLF-G35	OLF-G36
Cis-1,3-Dichloropropene	< 1 (UJ)	--	< 1	--	< 1	8.2	--	< 1	--	< 1	< 1	--	< 1	--	< 1	2.9	0.58 J	--
Dibromochloromethane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
Dibromomethane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
Dichlorodifluoromethane	< 1 (UJ)	--	0.38 J	--	< 1	< 1	--	< 2	--	< 1	< 1	--	< 2	--	< 1	< 1	< 1	--
Ethylbenzene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
Hexachlorobutadiene	< 1 (UJ)	--	< 1	--	< 5	< 1	--	< 1	--	< 5	< 1	--	< 1	--	< 5	< 1	< 1	--
Iodomethane	< 5 (UJ)	--	< 2	--	--	< 5	--	< 2	--	--	< 5	--	< 2	--	--	< 5	< 5	--
Isopropyl Benzene (Cumene)	< 10 (UJ)	--	< 1	--	< 1	< 10	--	< 1	--	< 1	< 10	--	< 1	--	< 1	< 10	< 10	--
m,p-Xylene	< 1 (UJ)	--	--	--	< 1	< 1	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	--
Methylene Chloride	< 1 (UJ)	--	< 2	--	< 5	< 1	--	< 2	--	< 5	< 1	--	< 2	--	< 5	< 1	< 1	--
MTBE	< 5 (UJ)	--	< 1	--	< 10	< 5	--	< 1	--	< 10	< 5	--	< 1	--	< 10	< 5	< 5	--
Naphthalene	< 10 (UJ)	--	< 2	--	< 5	< 10	--	< 2	--	< 5	< 10	--	< 2	--	< 5	< 10	< 10	--
N-Butylbenzene	< 5 (UJ)	--	< 1	--	< 1	< 5	--	< 1	--	< 1	< 5	--	< 1	--	< 1	< 5	< 5	--
N-Propylbenzene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
O-Xylene	< 1 (UJ)	--	--	--	< 1	< 1	--	--	--	< 1	< 1	--	--	--	< 1	< 1	< 1	--
P-Isopropyltoluene (Cymene)	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
2-Chlorotoluene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
Sec-Butylbenzene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
Styrene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
Tert-Butylbenzene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
Tetrachloroethylene	< 1 (UJ)	--	0.59 J	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
Toluene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
Trans-1,2-Dichloroethene	< 1 (UJ)	--	2.7	--	2.9	2.3	--	< 1	--	< 1	< 1	--	< 1	--	< 1	0.45 J (B)	< 1	--
Trans-1,3-Dichloropropene	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
Trans-1,4-Dichloro-2-Butene	< 2 (UJ)	--	< 2	--	--	< 2	--	< 2	--	--	< 2	--	< 2	--	--	< 2	< 2	--
Trichloroethene	< 1 (UJ)	--	74	--	89	97	--	2.8	--	2.3	1.2	--	1.4	--	9.3	11	4.7	--
Trichlorofluoro-methane	< 1 (UJ)	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--
Vinyl Acetate	< 2 (UJ)	--	< 2	--	< 2	< 2	--	< 2	--	< 2	< 2	--	< 2	--	< 2	< 2	< 2	--
Vinyl Chloride	< 1 (UJ)	--	< 0.8	--	< 1	< 1	--	< 0.8	--	< 1	< 1	--	< 0.8	--	< 1	< 1	< 1	--
Xylenes (Total)	< 1 (UJ)	--	< 3	--	< 1	< 1	--	< 3	--	< 1	< 1	--	< 3	--	< 1	< 1	< 1	--
Metals (mg/L)																		
Sodium	--	2.45	2.49	2.91	2.4	2.3	1.94	1.95	2.14	0.76 J	0.62 J	3.24	0.592 J	3.54	2.9	3.3	3	3.61
General Chemistry (mg/L)																		
Sulfate	--	0.954	1.14	1.42	1.2	--	3.58	3.43	3.14	2.2	--	11.6	2.07	10.6	11	8.1	12	15.6
TOC	--	--	--	--	--	1.4	--	--	--	3.5	1.2	--	--	--	--	--	--	--

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Table D.2: Off-Site Groundwater Analytical Results

Well ID	OLF-G36	OLF-G36	OLF-G36	OLF-G36	OLF-G36	OLF-G47	OLF-G47	OLF-G48	OLF-G48	OLF-G48	OLF-G48	OLF-G52	OLF-G52	OLF-G52	OLF-G52	OLF-G70	OLF-G70	OLF-G70	OLF-G70
Date	11/15/17	2/19/18	5/30/18	11/19/18	5/9/19	11/14/17	5/22/18	11/14/17	5/22/18	11/15/18	5/8/19	11/8/17	5/21/18	11/20/18	5/9/19	11/8/17	5/21/18	11/26/18	5/15/19
VOC (µg/L)																			
1,1,1,2-Tetrachloroethane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	0.33 J	--	< 1	< 1	1.4	2	1.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 1	--	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	< 1	< 1	--	< 1	< 1
1,1,2-Trichloroethane	< 1	--	< 1	< 1	< 1	0.38 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	< 1	--	< 5	< 5	< 5	< 1	< 5	< 1	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 1	< 5	< 5	< 5
1,2,3-Trichloropropane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	--	< 5	< 5	< 5	< 1	< 5	< 1	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 1	< 5	< 5	< 5
1,2,4-Trimethylbenzene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-Chloropropane	< 2	--	< 5	< 5	< 5	< 2	< 5	< 2	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 2	< 5	< 5	< 5
1,2-Dibromoethane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	< 10	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	< 10	--	< 10	< 1	< 1	< 10	< 10	< 10	< 10	< 1	< 1	< 10	< 10	< 1	< 1	< 10	< 10	< 1	< 1
4-Chlorotoluene	< 1	--	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 10	< 10	< 1	< 1	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	< 10	--	< 10	< 1	< 1	< 10	< 10	< 10	< 10	< 1	< 1	< 10	< 10	< 1	< 1	< 10	< 10	< 1	< 1
Acetone	< 10	--	20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile	< 10	--	--	< 10	< 10	< 10	--	< 10	--	< 10	< 10	< 10	--	< 10	< 10	< 10	--	< 10	< 10
Benzene	< 1	--	< 1	< 20	< 20	< 1	< 1	< 1	< 1	< 20	< 20	< 1	< 1	< 20	< 20	< 1	< 1	< 20	< 20
Bromobenzene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	< 2	--	< 5	< 1	< 1	< 2	< 5	< 2	< 5	< 1	< 1	< 2	< 5	< 1	< 1	< 2	< 5	< 1	< 1
Carbon Disulfide	< 1	--	< 2	< 5	< 5	< 1	< 2	< 1	< 2	< 5	< 5	< 1	< 2	< 5	< 5	< 1	< 2	< 5	< 5 (UJ)
Carbon Tetrachloride	< 1	--	< 1	< 2	< 2	< 1	< 1	< 1	< 1	< 2	< 2	< 1	< 1	< 2	< 2	< 1	< 1	< 2	< 2
Chlorobenzene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	< 2	--	< 5	< 1	< 1	< 2	< 5	< 2	< 5	< 1	< 1	< 2	< 5	< 1	< 1	< 2	< 5	< 1	< 1
Chloroform	< 1	--	< 1	< 5	< 5	< 1	< 1	< 1	< 1	< 5	< 5	< 1	< 1	< 5	< 5	< 1	< 1	< 5	< 5
Chloromethane	< 2	--	< 1	< 1	< 1	< 2	< 1	< 2	< 1	< 1	< 1	< 2	< 1	< 1	< 1	< 2	< 1	< 1	< 1
Cis-1,2-Dichloroethene	0.25 J	--	< 1	< 1	< 1	4.2	4.2	0.97 J	1.1	< 1	< 1	1.6	1.7	< 1	< 1	1.7	1.4	< 1	< 1

Table D.2: Off-Site Groundwater Analytical Results

Well ID	OLF-G36	OLF-G36	OLF-G36	OLF-G36	OLF-G36	OLF-G47	OLF-G47	OLF-G48	OLF-G48	OLF-G48	OLF-G48	OLF-G52	OLF-G52	OLF-G52	OLF-G52	OLF-G70	OLF-G70	OLF-G70	OLF-G70
Cis-1,3-Dichloropropene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.1	< 1	< 1	< 1	1.3	1.2	< 1	< 1	1.8	1.4
Dibromochloromethane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	< 2	--	< 1	< 1	< 1	< 2	< 1	< 2	< 1	< 1	< 1	< 2	< 1	< 1	< 1	< 2	< 1	< 1	< 1
Ethylbenzene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	--	< 5	< 1	< 1	< 1	< 5	< 1	< 5	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 5	< 1	< 1
Iodomethane	< 2	--	--	< 5	< 5	< 2	--	< 2	--	< 5	< 5	< 2	--	< 5	< 5	< 2	--	< 5	< 5
Isopropyl Benzene (Cumene)	< 1	--	< 1	< 10	< 10 (UJ)	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 10	< 10 (UJ)	< 1	< 1	< 10	< 10
m,p-Xylene	--	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	< 1	< 1	--	< 1	< 1	< 1
Methylene Chloride	< 2	--	< 5	< 1	< 1	< 2	< 5	< 2	< 5	< 1	< 1	< 2	< 5	< 1	< 1	< 2	< 5	< 1	< 1
MTBE	< 1	--	< 10	< 5	< 5	< 1	< 10	< 1	< 10	< 5	< 5	< 1	< 10	< 5	< 5	< 1	< 10	< 5	< 5
Naphthalene	< 2	--	< 5	< 10	< 10	< 2	< 5	< 2	< 5	< 10	< 10	< 2	< 5	< 10	< 10	< 2	< 5	< 10	< 10
N-Butylbenzene	< 1	--	< 1	< 5	< 5	< 1	< 1	< 1	< 1	< 5	< 5	< 1	< 1	< 5	< 5	< 1	< 1	< 5	< 5
N-Propylbenzene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-Xylene	--	--	< 1	< 1	< 1	--	< 1	--	< 1	< 1	< 1	--	< 1	< 1	< 1	--	< 1	< 1	< 1
P-Isopropyltoluene (Cymene)	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sec-Butylbenzene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert-Butylbenzene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,2-Dichloroethene	< 1	--	< 1	< 1	< 1	1.2	1.3	0.25 J	< 1	< 1	< 1	0.36 J	0.48 J	0.56 J	< 1	0.42 J	0.48 J	0.57 J	< 1
Trans-1,3-Dichloropropene	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,4-Dichloro-2-Butene	< 2	--	--	< 2	< 2	< 2	--	< 2	--	< 2	< 2	< 2	--	< 2	< 2	< 2	--	< 2	< 2
Trichloroethene	4	--	1.3	0.61 J	0.61 J	29	32	3.5	3.9	3.8	1.2	6.7	7.7	8.7	5.9	7.4	8.2	8.1	9.3
Trichlorofluoro-methane	< 1	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Acetate	< 2	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl Chloride	< 0.8	--	< 1	< 1	< 1	< 0.8	< 1	< 0.8	< 1	< 1	< 1	< 0.8	< 1	< 1	< 1	< 0.8	< 1	< 1	< 1 (UJ)
Xylenes (Total)	< 3	--	< 1	< 1	< 1	< 3	< 1	< 3	< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 3	< 1	< 1	< 1
Metals (mg/L)																			
Sodium	4.58	4.02	3.1	3.3	3.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry (mg/L)																			
Sulfate	15.6	15.5	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOC	0.7 J	--	< 1	14	13	--	< 1	--	< 1	--	--	--	< 1	--	--	--	< 1	--	--

Footnotes on last page.

VOC = Volatile organic compounds

Lab Flag

J = Result is estimated; detected between the method detection limit and the reporting limit.

-- = Not requested

Validation Flag (in parentheses)

B - Analyte detected in an associated blank.

J = Result is estimated based on data validation.

UJ = Reporting limit is estimated based on data validation.

Appendix D
Laboratory Reports

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-160798-1

Client Project/Site: Parcel 80(6), Landfill 3

For:

Matrix Environmental Services, LLC

1601 Blake Street

Suite 200

Denver, Colorado 80202

Attn: Ms. Betty Van Pelt

Kathryn Smith

Authorized for release by:

11/30/2018 2:37:15 PM

Kathryn Smith, Manager of Project Management

(912)250-0275

kathy.smith@testamericainc.com

Designee for

Jon Lawhon, Project Manager I

(912)250-0283

jon.lawhon@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
E	Result exceeded calibration range.

GC VOA

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

HPLC/IC

Qualifier	Qualifier Description
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.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

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.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

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.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated

Definitions/Glossary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-160798-1	OLF-G71 Port 1	Water	11/14/18 10:25	11/15/18 13:38
680-160798-2	OLF-G71 Port 2	Water	11/14/18 10:40	11/15/18 13:38
680-160798-3	OLF-G71 Port 3	Water	11/14/18 10:55	11/15/18 13:38
680-160798-4	OLF-G71 Port 4	Water	11/14/18 11:15	11/15/18 13:38
680-160798-5	OLF-G71 Port 5	Water	11/14/18 11:35	11/15/18 13:38
680-160798-6	OLF-G72 Port 1	Water	11/13/18 15:00	11/15/18 13:38
680-160798-7	OLF-G72 Port 2	Water	11/13/18 15:40	11/15/18 13:38
680-160798-8	OLF-G72 Port 3	Water	11/13/18 16:20	11/15/18 13:38
680-160798-9	OLF-G72 Port 4	Water	11/13/18 16:45	11/15/18 13:38
680-160798-10	TB #491	Water	11/14/18 13:00	11/15/18 13:38
680-160798-11	OLF-G72 Port 6	Water	11/13/18 17:40	11/15/18 13:38
680-160798-12	OLF-G72 Port 5	Water	11/13/18 17:20	11/15/18 13:38
680-160798-13	OLF-G08	Water	11/14/18 10:26	11/15/18 13:38
680-160798-14	OLF-G74 Port 1	Water	11/12/18 12:28	11/15/18 13:38
680-160798-15	OLF-G74 Port 2	Water	11/12/18 13:05	11/15/18 13:38
680-160798-16	OLF-G74 Port 3	Water	11/12/18 13:35	11/15/18 13:38
680-160798-17	OLF-G74 Port 4	Water	11/12/18 14:20	11/15/18 13:38
680-160798-18	OLF-G74 Port 5	Water	11/12/18 15:00	11/15/18 13:38
680-160798-19	DUP 305	Water	11/12/18 00:00	11/15/18 13:38
680-160798-20	OLF-G78	Water	11/12/18 12:51	11/15/18 13:38
680-160798-21	TB #492	Water	11/14/01 13:30	11/15/18 13:38
680-160798-22	OLF-G73 Port 1	Water	11/13/18 10:30	11/15/18 13:38
680-160798-23	OLF-G73 Port 2	Water	11/13/18 11:00	11/15/18 13:38
680-160798-24	OLF-G73 Port 3	Water	11/13/18 11:25	11/15/18 13:38
680-160798-25	OLF-G73 Port 4	Water	11/13/18 12:00	11/15/18 13:38
680-160798-26	OLF-G73 Port 5	Water	11/13/18 12:30	11/15/18 13:38
680-160798-27	OLF-G77	Water	11/13/18 10:21	11/15/18 13:38
680-160798-28	OLF-G20	Water	11/13/18 15:26	11/15/18 13:38
680-160798-29	OLF-G07	Water	11/13/18 13:01	11/15/18 13:38
680-160798-30	DUP 303	Water	11/13/18 00:00	11/15/18 13:38
680-160798-31	DUP 306	Water	11/13/18 00:00	11/15/18 13:38
680-160798-32	TB #493	Water	11/14/18 13:45	11/15/18 13:38

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Job ID: 680-160798-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC
Project: Parcel 80(6), Landfill 3

Report Number: 680-160798-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/15/2018; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.6° C, 1.4° C and 1.9° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OLF-G71 Port 1 (680-160798-1), OLF-G71 Port 2 (680-160798-2), OLF-G71 Port 3 (680-160798-3), OLF-G71 Port 4 (680-160798-4), OLF-G71 Port 5 (680-160798-5), OLF-G72 Port 1 (680-160798-6), OLF-G72 Port 2 (680-160798-7), OLF-G72 Port 3 (680-160798-8), OLF-G72 Port 4 (680-160798-9), TB #491 (680-160798-10), OLF-G72 Port 6 (680-160798-11), OLF-G72 Port 5 (680-160798-12), OLF-G74 Port 1 (680-160798-14), OLF-G74 Port 2 (680-160798-15), OLF-G74 Port 3 (680-160798-16), OLF-G74 Port 4 (680-160798-17), OLF-G74 Port 5 (680-160798-18), DUP 305 (680-160798-19), OLF-G78 (680-160798-20), TB #492 (680-160798-21), OLF-G73 Port 1 (680-160798-22), OLF-G73 Port 2 (680-160798-23), OLF-G73 Port 3 (680-160798-24), OLF-G73 Port 4 (680-160798-25), OLF-G73 Port 5 (680-160798-26), OLF-G77 (680-160798-27), OLF-G20 (680-160798-28), OLF-G07 (680-160798-29), DUP 303 (680-160798-30), DUP 306 (680-160798-31) and TB #493 (680-160798-32) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/24/2018, 11/26/2018, 11/27/2018 and 11/28/2018.

1,3-Dichlorobenzene, Carbon disulfide and trans-1,2-Dichloroethene were detected in method blank MB 680-548796/9 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following analyte recovered outside control limits for the LCS associated with analytical batch 680-548964: Tetrachloroethene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Reanalysis of the following samples were performed outside of the analytical holding time due to the original analysis being inadvertently spiked incorrectly. : OLF-G72 Port 1 (680-160798-6[MS]) and OLF-G72 Port 1 (680-160798-6[MSD]).

2,2-Dichloropropane and Hexachlorobutadiene recovered low for the MS of sample OLF-G07MS (680-160798-29) in batch 680-548738. 1,1,2,2-Tetrachloroethane recovered high.

2,2-Dichloropropane and cis-1,3-Dichloropropene recovered low for the MSD of sample OLF-G07MSD (680-160798-29) in batch 680-548738. 1,1,2,2-Tetrachloroethane recovered high.

Samples OLF-G72 Port 2 (680-160798-7)[5X], OLF-G77 (680-160798-27)[10X] and DUP 306 (680-160798-31)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

DISSOLVED GASES

Samples OLF-G72 Port 1 (680-160798-6), OLF-G72 Port 2 (680-160798-7), OLF-G72 Port 3 (680-160798-8), OLF-G72 Port 4 (680-160798-9), OLF-G72 Port 6 (680-160798-11), OLF-G72 Port 5 (680-160798-12), OLF-G73 Port 1 (680-160798-22), OLF-G73 Port 2 (680-160798-23), OLF-G73 Port 3 (680-160798-24), OLF-G73 Port 4 (680-160798-25), OLF-G73 Port 5 (680-160798-26), OLF-G77 (680-160798-27) and DUP 306 (680-160798-31) were analyzed for dissolved gases in accordance with RSK-175. The samples were

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Job ID: 680-160798-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

analyzed on 11/27/2018.

Sample OLF-G72 Port 1 (680-160798-6)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

METALS (ICP) - DISSOLVED

Samples OLF-G71 Port 1 (680-160798-1), OLF-G71 Port 2 (680-160798-2), OLF-G71 Port 3 (680-160798-3), OLF-G71 Port 4 (680-160798-4), OLF-G71 Port 5 (680-160798-5), OLF-G72 Port 1 (680-160798-6), OLF-G72 Port 2 (680-160798-7), OLF-G72 Port 3 (680-160798-8), OLF-G72 Port 4 (680-160798-9), OLF-G72 Port 6 (680-160798-11), OLF-G72 Port 5 (680-160798-12), OLF-G08 (680-160798-13), OLF-G74 Port 1 (680-160798-14), OLF-G74 Port 2 (680-160798-15), OLF-G74 Port 3 (680-160798-16), OLF-G74 Port 4 (680-160798-17), OLF-G74 Port 5 (680-160798-18), DUP 305 (680-160798-19), OLF-G78 (680-160798-20), OLF-G73 Port 1 (680-160798-22), OLF-G73 Port 2 (680-160798-23), OLF-G73 Port 3 (680-160798-24), OLF-G73 Port 4 (680-160798-25), OLF-G73 Port 5 (680-160798-26), OLF-G77 (680-160798-27), OLF-G20 (680-160798-28), OLF-G07 (680-160798-29), DUP 303 (680-160798-30) and DUP 306 (680-160798-31) were analyzed for Metals (ICP) - Dissolved in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/27/2018 and analyzed on 11/29/2018.

Dissolved Sodium recovered low for the MS of sample OLF-G72 Port 1MS (680-160798-6) in batch 680-549406.

Dissolved Sodium recovered high for the MSD of sample OLF-G72 Port 1MSD (680-160798-6) in batch 680-549406.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples OLF-G71 Port 1 (680-160798-1), OLF-G71 Port 2 (680-160798-2), OLF-G71 Port 3 (680-160798-3), OLF-G71 Port 4 (680-160798-4), OLF-G71 Port 5 (680-160798-5), OLF-G72 Port 1 (680-160798-6), OLF-G72 Port 2 (680-160798-7), OLF-G72 Port 3 (680-160798-8), OLF-G72 Port 4 (680-160798-9), OLF-G72 Port 6 (680-160798-11), OLF-G72 Port 5 (680-160798-12), OLF-G08 (680-160798-13), OLF-G74 Port 1 (680-160798-14), OLF-G74 Port 2 (680-160798-15), OLF-G74 Port 3 (680-160798-16), OLF-G74 Port 4 (680-160798-17), OLF-G74 Port 5 (680-160798-18), DUP 305 (680-160798-19), OLF-G78 (680-160798-20), OLF-G73 Port 1 (680-160798-22), OLF-G73 Port 2 (680-160798-23), OLF-G73 Port 3 (680-160798-24), OLF-G73 Port 4 (680-160798-25), OLF-G73 Port 5 (680-160798-26), OLF-G77 (680-160798-27), OLF-G20 (680-160798-28), OLF-G07 (680-160798-29), DUP 303 (680-160798-30) and DUP 306 (680-160798-31) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with SW 846 9056A. The samples were analyzed on 11/20/2018 and 11/27/2018.

Sulfate recovered low for the MS of sample OLF-G72 Port 1MS (680-160798-6) in batch 680-548347.

Sulfate exceeded the RPD limit for the MSD of sample OLF-G72 Port 1MSD (680-160798-6) in batch 680-548347.

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

TOTAL ORGANIC CARBON

Samples OLF-G72 Port 1 (680-160798-6), OLF-G72 Port 2 (680-160798-7), OLF-G72 Port 3 (680-160798-8), OLF-G72 Port 4 (680-160798-9), OLF-G72 Port 6 (680-160798-11), OLF-G72 Port 5 (680-160798-12), OLF-G74 Port 1 (680-160798-14), OLF-G74 Port 2 (680-160798-15), OLF-G74 Port 3 (680-160798-16), OLF-G74 Port 4 (680-160798-17), OLF-G74 Port 5 (680-160798-18), DUP 305 (680-160798-19), OLF-G73 Port 1 (680-160798-22), OLF-G73 Port 2 (680-160798-23), OLF-G73 Port 3 (680-160798-24), OLF-G73 Port 4 (680-160798-25), OLF-G73 Port 5 (680-160798-26), OLF-G77 (680-160798-27) and DUP 306 (680-160798-31) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 11/19/2018 and 11/20/2018.

Sample OLF-G72 Port 2 (680-160798-7)[2.08X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 1

Lab Sample ID: 680-160798-1

Date Collected: 11/14/18 10:25

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/26/18 18:51	1
Acrylonitrile	10	U	20	10	ug/L			11/26/18 18:51	1
Benzene	0.94	J	1.0	0.43	ug/L			11/26/18 18:51	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/26/18 18:51	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/26/18 18:51	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/26/18 18:51	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/26/18 18:51	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/26/18 18:51	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/26/18 18:51	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/26/18 18:51	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/26/18 18:51	1
Chlorobenzene	5.5		1.0	0.26	ug/L			11/26/18 18:51	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/26/18 18:51	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/26/18 18:51	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/26/18 18:51	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/26/18 18:51	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/26/18 18:51	1
cis-1,2-Dichloroethene	110		1.0	0.41	ug/L			11/26/18 18:51	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/26/18 18:51	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/26/18 18:51	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/26/18 18:51	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/26/18 18:51	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/26/18 18:51	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/26/18 18:51	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/26/18 18:51	1
1,4-Dichlorobenzene	0.60	J	1.0	0.46	ug/L			11/26/18 18:51	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/26/18 18:51	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/26/18 18:51	1
1,2-Dichloroethane	0.96	J	1.0	0.50	ug/L			11/26/18 18:51	1
1,1-Dichloroethene	0.98	J	1.0	0.36	ug/L			11/26/18 18:51	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/26/18 18:51	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/26/18 18:51	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/26/18 18:51	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/26/18 18:51	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/26/18 18:51	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/26/18 18:51	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/26/18 18:51	1
Iodomethane	5.0	U	10	5.0	ug/L			11/26/18 18:51	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/26/18 18:51	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/26/18 18:51	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/26/18 18:51	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/26/18 18:51	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/26/18 18:51	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/26/18 18:51	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 18:51	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/26/18 18:51	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/26/18 18:51	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/26/18 18:51	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/26/18 18:51	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 1

Lab Sample ID: 680-160798-1

Date Collected: 11/14/18 10:25

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/26/18 18:51	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/26/18 18:51	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 18:51	1
1,1,2,2-Tetrachloroethane	5.8		1.0	0.62	ug/L			11/26/18 18:51	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/26/18 18:51	1
Toluene	0.59	J	1.0	0.48	ug/L			11/26/18 18:51	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/26/18 18:51	1
trans-1,2-Dichloroethene	17	B	1.0	0.37	ug/L			11/26/18 18:51	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/26/18 18:51	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 18:51	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 18:51	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 18:51	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/26/18 18:51	1
Trichloroethene	47		1.0	0.48	ug/L			11/26/18 18:51	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/26/18 18:51	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/26/18 18:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/26/18 18:51	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 18:51	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/26/18 18:51	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/26/18 18:51	1
Vinyl chloride	6.7		1.0	0.50	ug/L			11/26/18 18:51	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/26/18 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		11/26/18 18:51	1
Dibromofluoromethane (Surr)	94		80 - 122		11/26/18 18:51	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		11/26/18 18:51	1
Toluene-d8 (Surr)	96		80 - 120		11/26/18 18:51	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4.8		1.0	0.40	mg/L			11/20/18 16:35	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	83000		1000	480	ug/L		11/27/18 10:42	11/29/18 03:01	1

Client Sample ID: OLF-G71 Port 2

Lab Sample ID: 680-160798-2

Date Collected: 11/14/18 10:40

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/27/18 16:00	1
Acrylonitrile	10	U	20	10	ug/L			11/27/18 16:00	1
Benzene	0.60	J	1.0	0.43	ug/L			11/27/18 16:00	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/27/18 16:00	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/27/18 16:00	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/27/18 16:00	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/27/18 16:00	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 2

Lab Sample ID: 680-160798-2

Date Collected: 11/14/18 10:40

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	2.5	U	5.0	2.5	ug/L			11/27/18 16:00	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/27/18 16:00	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/27/18 16:00	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/27/18 16:00	1
Chlorobenzene	2.3		1.0	0.26	ug/L			11/27/18 16:00	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/27/18 16:00	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/27/18 16:00	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/27/18 16:00	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/27/18 16:00	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/27/18 16:00	1
cis-1,2-Dichloroethene	44		1.0	0.41	ug/L			11/27/18 16:00	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/27/18 16:00	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/27/18 16:00	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/27/18 16:00	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/27/18 16:00	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/27/18 16:00	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/27/18 16:00	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/27/18 16:00	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/27/18 16:00	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/27/18 16:00	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/27/18 16:00	1
1,2-Dichloroethane	0.59 J		1.0	0.50	ug/L			11/27/18 16:00	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/27/18 16:00	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/27/18 16:00	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/27/18 16:00	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/27/18 16:00	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/27/18 16:00	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/27/18 16:00	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/27/18 16:00	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/27/18 16:00	1
Iodomethane	5.0	U	10	5.0	ug/L			11/27/18 16:00	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/27/18 16:00	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/27/18 16:00	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/27/18 16:00	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/27/18 16:00	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/27/18 16:00	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/27/18 16:00	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 16:00	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/27/18 16:00	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/27/18 16:00	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/27/18 16:00	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/27/18 16:00	1
Styrene	0.27	U	1.0	0.27	ug/L			11/27/18 16:00	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/27/18 16:00	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 16:00	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/27/18 16:00	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/27/18 16:00	1
Toluene	1.6		1.0	0.48	ug/L			11/27/18 16:00	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/27/18 16:00	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 2

Lab Sample ID: 680-160798-2

Date Collected: 11/14/18 10:40

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	4.1		1.0	0.37	ug/L			11/27/18 16:00	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/27/18 16:00	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 16:00	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 16:00	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 16:00	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/27/18 16:00	1
Trichloroethene	11		1.0	0.48	ug/L			11/27/18 16:00	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/27/18 16:00	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/27/18 16:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/27/18 16:00	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 16:00	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/27/18 16:00	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/27/18 16:00	1
Vinyl chloride	2.4		1.0	0.50	ug/L			11/27/18 16:00	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/27/18 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		80 - 120		11/27/18 16:00	1
Dibromofluoromethane (Surr)	105		80 - 122		11/27/18 16:00	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131		11/27/18 16:00	1
Toluene-d8 (Surr)	104		80 - 120		11/27/18 16:00	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7.3		1.0	0.40	mg/L			11/20/18 17:52	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	38000		1000	480	ug/L		11/27/18 10:42	11/29/18 03:59	1

Client Sample ID: OLF-G71 Port 3

Lab Sample ID: 680-160798-3

Date Collected: 11/14/18 10:55

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/26/18 19:33	1
Acrylonitrile	10	U	20	10	ug/L			11/26/18 19:33	1
Benzene	0.73	J	1.0	0.43	ug/L			11/26/18 19:33	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/26/18 19:33	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/26/18 19:33	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/26/18 19:33	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/26/18 19:33	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/26/18 19:33	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/26/18 19:33	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/26/18 19:33	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/26/18 19:33	1
Chlorobenzene	3.1		1.0	0.26	ug/L			11/26/18 19:33	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/26/18 19:33	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/26/18 19:33	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 3

Lab Sample ID: 680-160798-3

Date Collected: 11/14/18 10:55

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.40	U	1.0	0.40	ug/L			11/26/18 19:33	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/26/18 19:33	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/26/18 19:33	1
cis-1,2-Dichloroethene	31		1.0	0.41	ug/L			11/26/18 19:33	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/26/18 19:33	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/26/18 19:33	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/26/18 19:33	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/26/18 19:33	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/26/18 19:33	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/26/18 19:33	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/26/18 19:33	1
1,4-Dichlorobenzene	0.56 J		1.0	0.46	ug/L			11/26/18 19:33	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/26/18 19:33	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/26/18 19:33	1
1,2-Dichloroethane	0.69 J		1.0	0.50	ug/L			11/26/18 19:33	1
1,1-Dichloroethene	0.36 J		1.0	0.36	ug/L			11/26/18 19:33	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/26/18 19:33	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/26/18 19:33	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/26/18 19:33	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/26/18 19:33	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/26/18 19:33	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/26/18 19:33	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/26/18 19:33	1
Iodomethane	5.0	U	10	5.0	ug/L			11/26/18 19:33	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/26/18 19:33	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/26/18 19:33	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/26/18 19:33	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/26/18 19:33	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/26/18 19:33	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/26/18 19:33	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 19:33	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/26/18 19:33	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/26/18 19:33	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/26/18 19:33	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/26/18 19:33	1
Styrene	0.27	U	1.0	0.27	ug/L			11/26/18 19:33	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/26/18 19:33	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 19:33	1
1,1,2,2-Tetrachloroethane	0.88 J		1.0	0.62	ug/L			11/26/18 19:33	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/26/18 19:33	1
Toluene	0.48	U	1.0	0.48	ug/L			11/26/18 19:33	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/26/18 19:33	1
trans-1,2-Dichloroethene	6.1 B		1.0	0.37	ug/L			11/26/18 19:33	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/26/18 19:33	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 19:33	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 19:33	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 19:33	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/26/18 19:33	1
Trichloroethene	54		1.0	0.48	ug/L			11/26/18 19:33	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 3

Lab Sample ID: 680-160798-3

Date Collected: 11/14/18 10:55

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/26/18 19:33	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/26/18 19:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/26/18 19:33	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 19:33	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/26/18 19:33	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/26/18 19:33	1
Vinyl chloride	4.3		1.0	0.50	ug/L			11/26/18 19:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/26/18 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		11/26/18 19:33	1
Dibromofluoromethane (Surr)	96		80 - 122		11/26/18 19:33	1
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		11/26/18 19:33	1
Toluene-d8 (Surr)	94		80 - 120		11/26/18 19:33	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2.2		1.0	0.40	mg/L			11/20/18 18:05	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	14000		1000	480	ug/L		11/27/18 10:42	11/29/18 04:03	1

Client Sample ID: OLF-G71 Port 4

Lab Sample ID: 680-160798-4

Date Collected: 11/14/18 11:15

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/26/18 19:57	1
Acrylonitrile	10	U	20	10	ug/L			11/26/18 19:57	1
Benzene	0.52	J	1.0	0.43	ug/L			11/26/18 19:57	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/26/18 19:57	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/26/18 19:57	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/26/18 19:57	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/26/18 19:57	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/26/18 19:57	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/26/18 19:57	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/26/18 19:57	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/26/18 19:57	1
Chlorobenzene	2.7		1.0	0.26	ug/L			11/26/18 19:57	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/26/18 19:57	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/26/18 19:57	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/26/18 19:57	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/26/18 19:57	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/26/18 19:57	1
cis-1,2-Dichloroethene	27		1.0	0.41	ug/L			11/26/18 19:57	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/26/18 19:57	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/26/18 19:57	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/26/18 19:57	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 4

Lab Sample ID: 680-160798-4

Date Collected: 11/14/18 11:15

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/26/18 19:57	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/26/18 19:57	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/26/18 19:57	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/26/18 19:57	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/26/18 19:57	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/26/18 19:57	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/26/18 19:57	1
1,2-Dichloroethane	0.56	J	1.0	0.50	ug/L			11/26/18 19:57	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/26/18 19:57	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/26/18 19:57	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/26/18 19:57	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/26/18 19:57	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/26/18 19:57	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/26/18 19:57	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/26/18 19:57	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/26/18 19:57	1
Iodomethane	5.0	U	10	5.0	ug/L			11/26/18 19:57	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/26/18 19:57	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/26/18 19:57	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/26/18 19:57	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/26/18 19:57	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/26/18 19:57	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/26/18 19:57	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 19:57	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/26/18 19:57	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/26/18 19:57	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/26/18 19:57	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/26/18 19:57	1
Styrene	0.27	U	1.0	0.27	ug/L			11/26/18 19:57	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/26/18 19:57	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 19:57	1
1,1,2,2-Tetrachloroethane	0.73	J	1.0	0.62	ug/L			11/26/18 19:57	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/26/18 19:57	1
Toluene	2.2		1.0	0.48	ug/L			11/26/18 19:57	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/26/18 19:57	1
trans-1,2-Dichloroethene	2.3	B	1.0	0.37	ug/L			11/26/18 19:57	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/26/18 19:57	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 19:57	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 19:57	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 19:57	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/26/18 19:57	1
Trichloroethene	24		1.0	0.48	ug/L			11/26/18 19:57	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/26/18 19:57	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/26/18 19:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/26/18 19:57	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 19:57	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/26/18 19:57	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/26/18 19:57	1
Vinyl chloride	2.2		1.0	0.50	ug/L			11/26/18 19:57	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 4

Lab Sample ID: 680-160798-4

Date Collected: 11/14/18 11:15

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L	-		11/26/18 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120					11/26/18 19:57	1
Dibromofluoromethane (Surr)	95		80 - 122					11/26/18 19:57	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131					11/26/18 19:57	1
Toluene-d8 (Surr)	96		80 - 120					11/26/18 19:57	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L	-		11/20/18 18:18	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	12000		1000	480	ug/L	-	11/27/18 10:42	11/29/18 04:07	1

Client Sample ID: OLF-G71 Port 5

Lab Sample ID: 680-160798-5

Date Collected: 11/14/18 11:35

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L	-		11/26/18 20:42	1
Acrylonitrile	10	U	20	10	ug/L	-		11/26/18 20:42	1
Benzene	1.1		1.0	0.43	ug/L	-		11/26/18 20:42	1
Bromobenzene	0.50	U	1.0	0.50	ug/L	-		11/26/18 20:42	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L	-		11/26/18 20:42	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L	-		11/26/18 20:42	1
Bromoform	0.43	U	1.0	0.43	ug/L	-		11/26/18 20:42	1
Bromomethane	2.5	U	5.0	2.5	ug/L	-		11/26/18 20:42	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L	-		11/26/18 20:42	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L	-		11/26/18 20:42	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L	-		11/26/18 20:42	1
Chlorobenzene	0.99	J	1.0	0.26	ug/L	-		11/26/18 20:42	1
Chloroethane	2.5	U	5.0	2.5	ug/L	-		11/26/18 20:42	1
Chloroform	0.50	U	1.0	0.50	ug/L	-		11/26/18 20:42	1
Chloromethane	0.40	U	1.0	0.40	ug/L	-		11/26/18 20:42	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L	-		11/26/18 20:42	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L	-		11/26/18 20:42	1
cis-1,2-Dichloroethene	6.3		1.0	0.41	ug/L	-		11/26/18 20:42	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L	-		11/26/18 20:42	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L	-		11/26/18 20:42	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L	-		11/26/18 20:42	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L	-		11/26/18 20:42	1
Dibromomethane	0.35	U	1.0	0.35	ug/L	-		11/26/18 20:42	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L	-		11/26/18 20:42	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L	-		11/26/18 20:42	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L	-		11/26/18 20:42	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L	-		11/26/18 20:42	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L	-		11/26/18 20:42	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 5

Lab Sample ID: 680-160798-5

Date Collected: 11/14/18 11:35

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.57	J	1.0	0.50	ug/L			11/26/18 20:42	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/26/18 20:42	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/26/18 20:42	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/26/18 20:42	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/26/18 20:42	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/26/18 20:42	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/26/18 20:42	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/26/18 20:42	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/26/18 20:42	1
Iodomethane	5.0	U	10	5.0	ug/L			11/26/18 20:42	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/26/18 20:42	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/26/18 20:42	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/26/18 20:42	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/26/18 20:42	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/26/18 20:42	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/26/18 20:42	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 20:42	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/26/18 20:42	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/26/18 20:42	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/26/18 20:42	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/26/18 20:42	1
Styrene	0.27	U	1.0	0.27	ug/L			11/26/18 20:42	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/26/18 20:42	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 20:42	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/26/18 20:42	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/26/18 20:42	1
Toluene	3.2		1.0	0.48	ug/L			11/26/18 20:42	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/26/18 20:42	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/26/18 20:42	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/26/18 20:42	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 20:42	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 20:42	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 20:42	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/26/18 20:42	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/26/18 20:42	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/26/18 20:42	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/26/18 20:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/26/18 20:42	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 20:42	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/26/18 20:42	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/26/18 20:42	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/26/18 20:42	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/26/18 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		11/26/18 20:42	1
Dibromofluoromethane (Surr)	95		80 - 122		11/26/18 20:42	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		11/26/18 20:42	1
Toluene-d8 (Surr)	94		80 - 120		11/26/18 20:42	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 5

Date Collected: 11/14/18 11:35

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-5

Matrix: Water

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			11/20/18 18:31	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	23000		1000	480	ug/L		11/27/18 10:42	11/29/18 03:45	1

Client Sample ID: OLF-G72 Port 1

Date Collected: 11/13/18 15:00

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U F1	10	7.0	ug/L			11/27/18 11:55	1
Acrylonitrile	10	U F1	20	10	ug/L			11/27/18 11:55	1
Benzene	1.2	F1	1.0	0.43	ug/L			11/27/18 11:55	1
Bromobenzene	0.50	U F1	1.0	0.50	ug/L			11/27/18 11:55	1
Bromochloromethane	0.45	U F1	1.0	0.45	ug/L			11/27/18 11:55	1
Bromodichloromethane	0.44	U F1	1.0	0.44	ug/L			11/27/18 11:55	1
Bromoform	0.43	U F1	1.0	0.43	ug/L			11/27/18 11:55	1
Bromomethane	2.5	U F1	5.0	2.5	ug/L			11/27/18 11:55	1
2-Butanone (MEK)	3.4	U F1	10	3.4	ug/L			11/27/18 11:55	1
Carbon disulfide	1.0	U F1	2.0	1.0	ug/L			11/27/18 11:55	1
Carbon tetrachloride	0.33	U F1	1.0	0.33	ug/L			11/27/18 11:55	1
Chlorobenzene	55	F1	1.0	0.26	ug/L			11/27/18 11:55	1
Chloroethane	2.5	U F1	5.0	2.5	ug/L			11/27/18 11:55	1
Chloroform	0.50	U F1	1.0	0.50	ug/L			11/27/18 11:55	1
Chloromethane	0.40	U F1	1.0	0.40	ug/L			11/27/18 11:55	1
2-Chlorotoluene	0.27	U F1	1.0	0.27	ug/L			11/27/18 11:55	1
4-Chlorotoluene	0.45	U F1	1.0	0.45	ug/L			11/27/18 11:55	1
cis-1,2-Dichloroethene	0.85	J F1	1.0	0.41	ug/L			11/27/18 11:55	1
cis-1,3-Dichloropropene	0.40	U F1	1.0	0.40	ug/L			11/27/18 11:55	1
Dibromochloromethane	0.32	U F1	1.0	0.32	ug/L			11/27/18 11:55	1
1,2-Dibromo-3-Chloropropane	1.1	U F1	5.0	1.1	ug/L			11/27/18 11:55	1
1,2-Dibromoethane	0.44	U F1	1.0	0.44	ug/L			11/27/18 11:55	1
Dibromomethane	0.35	U F1	1.0	0.35	ug/L			11/27/18 11:55	1
1,2-Dichlorobenzene	0.37	U F1	1.0	0.37	ug/L			11/27/18 11:55	1
1,3-Dichlorobenzene	0.43	U F1	1.0	0.43	ug/L			11/27/18 11:55	1
1,4-Dichlorobenzene	0.79	J F1	1.0	0.46	ug/L			11/27/18 11:55	1
Dichlorodifluoromethane	0.60	U F1	1.0	0.60	ug/L			11/27/18 11:55	1
1,1-Dichloroethane	0.38	U F1	1.0	0.38	ug/L			11/27/18 11:55	1
1,2-Dichloroethane	6.8	F1	1.0	0.50	ug/L			11/27/18 11:55	1
1,1-Dichloroethene	0.36	U F1	1.0	0.36	ug/L			11/27/18 11:55	1
1,2-Dichloropropane	0.67	U F1	1.0	0.67	ug/L			11/27/18 11:55	1
1,3-Dichloropropane	0.34	U F1	1.0	0.34	ug/L			11/27/18 11:55	1
2,2-Dichloropropane	0.37	U F1	1.0	0.37	ug/L			11/27/18 11:55	1
1,1-Dichloropropene	0.34	U F1	1.0	0.34	ug/L			11/27/18 11:55	1
Ethylbenzene	0.33	U F1	1.0	0.33	ug/L			11/27/18 11:55	1
Hexachlorobutadiene	2.5	U F1	5.0	2.5	ug/L			11/27/18 11:55	1
2-Hexanone	2.0	U F1	10	2.0	ug/L			11/27/18 11:55	1
Iodomethane	5.0	U F1	10	5.0	ug/L			11/27/18 11:55	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 1

Lab Sample ID: 680-160798-6

Date Collected: 11/13/18 15:00

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.35	U F1	1.0	0.35	ug/L			11/27/18 11:55	1
Methylene Chloride	2.5	U F1	5.0	2.5	ug/L			11/27/18 11:55	1
4-Methyl-2-pentanone	2.1	U F1	10	2.1	ug/L			11/27/18 11:55	1
Methyl tert-butyl ether	0.30	U F1	10	0.30	ug/L			11/27/18 11:55	1
m-Xylene & p-Xylene	0.35	U F1	1.0	0.35	ug/L			11/27/18 11:55	1
Naphthalene	2.5	U F1	5.0	2.5	ug/L			11/27/18 11:55	1
n-Butylbenzene	0.47	U F1	1.0	0.47	ug/L			11/27/18 11:55	1
N-Propylbenzene	0.38	U F1	1.0	0.38	ug/L			11/27/18 11:55	1
o-Xylene	0.23	U F1	1.0	0.23	ug/L			11/27/18 11:55	1
p-Isopropyltoluene	0.48	U F1	1.0	0.48	ug/L			11/27/18 11:55	1
sec-Butylbenzene	0.42	U F1	1.0	0.42	ug/L			11/27/18 11:55	1
Styrene	0.27	U F1	1.0	0.27	ug/L			11/27/18 11:55	1
tert-Butylbenzene	0.45	U F1	1.0	0.45	ug/L			11/27/18 11:55	1
1,1,1,2-Tetrachloroethane	0.37	U F1	1.0	0.37	ug/L			11/27/18 11:55	1
1,1,2,2-Tetrachloroethane	0.62	U F1	1.0	0.62	ug/L			11/27/18 11:55	1
Tetrachloroethylene	0.74	U F1	1.0	0.74	ug/L			11/27/18 11:55	1
Toluene	0.69	J F1	1.0	0.48	ug/L			11/27/18 11:55	1
trans-1,4-Dichloro-2-butene	0.51	U F1	2.0	0.51	ug/L			11/27/18 11:55	1
trans-1,2-Dichloroethene	2.1	F1	1.0	0.37	ug/L			11/27/18 11:55	1
trans-1,3-Dichloropropene	0.42	U F1	1.0	0.42	ug/L			11/27/18 11:55	1
1,2,3-Trichlorobenzene	2.5	U F1	5.0	2.5	ug/L			11/27/18 11:55	1
1,2,4-Trichlorobenzene	2.5	U F1	5.0	2.5	ug/L			11/27/18 11:55	1
1,1,1-Trichloroethane	0.37	U F1	1.0	0.37	ug/L			11/27/18 11:55	1
1,1,2-Trichloroethane	0.33	U F1	1.0	0.33	ug/L			11/27/18 11:55	1
Trichloroethene	0.48	U F1	1.0	0.48	ug/L			11/27/18 11:55	1
Trichlorofluoromethane	0.42	U F1	1.0	0.42	ug/L			11/27/18 11:55	1
1,2,3-Trichloropropane	0.39	U F1	1.0	0.39	ug/L			11/27/18 11:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U F1	1.0	0.36	ug/L			11/27/18 11:55	1
1,2,4-Trimethylbenzene	0.47	U F1	1.0	0.47	ug/L			11/27/18 11:55	1
1,3,5-Trimethylbenzene	0.31	U F1	1.0	0.31	ug/L			11/27/18 11:55	1
Vinyl acetate	0.81	U F1	2.0	0.81	ug/L			11/27/18 11:55	1
Vinyl chloride	0.50	U F1	1.0	0.50	ug/L			11/27/18 11:55	1
Xylenes, Total	0.23	U F1	1.0	0.23	ug/L			11/27/18 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		80 - 120		11/27/18 11:55	1
Dibromofluoromethane (Surr)	106		80 - 122		11/27/18 11:55	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		11/27/18 11:55	1
Toluene-d8 (Surr)	103		80 - 120		11/27/18 11:55	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	26		1.1	0.55	ug/L			11/27/18 12:23	1
Ethylene	250		1.0	0.50	ug/L			11/27/18 12:23	1

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	27000		780	78	ug/L			11/27/18 19:46	2

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 1

Date Collected: 11/13/18 15:00

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-6

Matrix: Water

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U F1 F2	1.0	0.40	mg/L	-		11/20/18 18:44	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	25000		1000	480	ug/L	-	11/27/18 10:42	11/29/18 02:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	97		1.0	0.50	mg/L	-		11/20/18 01:29	1
Total Organic Carbon - Quad	97		1.0	0.50	mg/L	-		11/20/18 01:29	1

Client Sample ID: OLF-G72 Port 2

Date Collected: 11/13/18 15:40

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	35	U	50	35	ug/L	-		11/27/18 15:49	5
Acrylonitrile	50	U	100	50	ug/L	-		11/27/18 15:49	5
Benzene	2.2	U	5.0	2.2	ug/L	-		11/27/18 15:49	5
Bromobenzene	2.5	U	5.0	2.5	ug/L	-		11/27/18 15:49	5
Bromochloromethane	2.3	U	5.0	2.3	ug/L	-		11/27/18 15:49	5
Bromodichloromethane	2.2	U	5.0	2.2	ug/L	-		11/27/18 15:49	5
Bromoform	2.2	U	5.0	2.2	ug/L	-		11/27/18 15:49	5
Bromomethane	13	U	25	13	ug/L	-		11/27/18 15:49	5
2-Butanone (MEK)	33	J	50	17	ug/L	-		11/27/18 15:49	5
Carbon disulfide	5.0	U	10	5.0	ug/L	-		11/27/18 15:49	5
Carbon tetrachloride	1.7	U	5.0	1.7	ug/L	-		11/27/18 15:49	5
Chlorobenzene	36		5.0	1.3	ug/L	-		11/27/18 15:49	5
Chloroethane	13	U	25	13	ug/L	-		11/27/18 15:49	5
Chloroform	2.5	U	5.0	2.5	ug/L	-		11/27/18 15:49	5
Chloromethane	2.0	U	5.0	2.0	ug/L	-		11/27/18 15:49	5
2-Chlorotoluene	1.4	U	5.0	1.4	ug/L	-		11/27/18 15:49	5
4-Chlorotoluene	2.3	U	5.0	2.3	ug/L	-		11/27/18 15:49	5
cis-1,2-Dichloroethene	110		5.0	2.1	ug/L	-		11/27/18 15:49	5
cis-1,3-Dichloropropene	2.0	U	5.0	2.0	ug/L	-		11/27/18 15:49	5
Dibromochloromethane	1.6	U	5.0	1.6	ug/L	-		11/27/18 15:49	5
1,2-Dibromo-3-Chloropropane	5.5	U	25	5.5	ug/L	-		11/27/18 15:49	5
1,2-Dibromoethane	2.2	U	5.0	2.2	ug/L	-		11/27/18 15:49	5
Dibromomethane	1.8	U	5.0	1.8	ug/L	-		11/27/18 15:49	5
1,2-Dichlorobenzene	1.9	U	5.0	1.9	ug/L	-		11/27/18 15:49	5
1,3-Dichlorobenzene	2.2	U	5.0	2.2	ug/L	-		11/27/18 15:49	5
1,4-Dichlorobenzene	2.3	U	5.0	2.3	ug/L	-		11/27/18 15:49	5
Dichlorodifluoromethane	3.0	U	5.0	3.0	ug/L	-		11/27/18 15:49	5
1,1-Dichloroethane	1.9	U	5.0	1.9	ug/L	-		11/27/18 15:49	5
1,2-Dichloroethane	7.9		5.0	2.5	ug/L	-		11/27/18 15:49	5
1,1-Dichloroethene	1.8	U	5.0	1.8	ug/L	-		11/27/18 15:49	5
1,2-Dichloropropane	3.4	U	5.0	3.4	ug/L	-		11/27/18 15:49	5
1,3-Dichloropropane	1.7	U	5.0	1.7	ug/L	-		11/27/18 15:49	5
2,2-Dichloropropane	1.9	U	5.0	1.9	ug/L	-		11/27/18 15:49	5

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 2

Lab Sample ID: 680-160798-7

Date Collected: 11/13/18 15:40

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	1.7	U	5.0	1.7	ug/L			11/27/18 15:49	5
Ethylbenzene	1.7	U	5.0	1.7	ug/L			11/27/18 15:49	5
Hexachlorobutadiene	13	U	25	13	ug/L			11/27/18 15:49	5
2-Hexanone	10	U	50	10	ug/L			11/27/18 15:49	5
Iodomethane	25	U	50	25	ug/L			11/27/18 15:49	5
Isopropylbenzene	1.8	U	5.0	1.8	ug/L			11/27/18 15:49	5
Methylene Chloride	13	U	25	13	ug/L			11/27/18 15:49	5
4-Methyl-2-pentanone	11	U	50	11	ug/L			11/27/18 15:49	5
Methyl tert-butyl ether	1.5	U	50	1.5	ug/L			11/27/18 15:49	5
m-Xylene & p-Xylene	1.8	U	5.0	1.8	ug/L			11/27/18 15:49	5
Naphthalene	13	U	25	13	ug/L			11/27/18 15:49	5
n-Butylbenzene	2.4	U	5.0	2.4	ug/L			11/27/18 15:49	5
N-Propylbenzene	1.9	U	5.0	1.9	ug/L			11/27/18 15:49	5
o-Xylene	1.2	U	5.0	1.2	ug/L			11/27/18 15:49	5
p-Isopropyltoluene	2.4	U	5.0	2.4	ug/L			11/27/18 15:49	5
sec-Butylbenzene	2.1	U	5.0	2.1	ug/L			11/27/18 15:49	5
Styrene	1.4	U	5.0	1.4	ug/L			11/27/18 15:49	5
tert-Butylbenzene	2.3	U	5.0	2.3	ug/L			11/27/18 15:49	5
1,1,1,2-Tetrachloroethane	1.9	U	5.0	1.9	ug/L			11/27/18 15:49	5
1,1,2,2-Tetrachloroethane	3.1	U	5.0	3.1	ug/L			11/27/18 15:49	5
Tetrachloroethylene	3.7	U *	5.0	3.7	ug/L			11/27/18 15:49	5
Toluene	10		5.0	2.4	ug/L			11/27/18 15:49	5
trans-1,4-Dichloro-2-butene	2.6	U	10	2.6	ug/L			11/27/18 15:49	5
trans-1,2-Dichloroethene	20		5.0	1.9	ug/L			11/27/18 15:49	5
trans-1,3-Dichloropropene	2.1	U	5.0	2.1	ug/L			11/27/18 15:49	5
1,2,3-Trichlorobenzene	13	U	25	13	ug/L			11/27/18 15:49	5
1,2,4-Trichlorobenzene	13	U	25	13	ug/L			11/27/18 15:49	5
1,1,1-Trichloroethane	1.9	U	5.0	1.9	ug/L			11/27/18 15:49	5
1,1,2-Trichloroethane	1.7	U	5.0	1.7	ug/L			11/27/18 15:49	5
Trichloroethene	3.2 J		5.0	2.4	ug/L			11/27/18 15:49	5
Trichlorofluoromethane	2.1	U	5.0	2.1	ug/L			11/27/18 15:49	5
1,2,3-Trichloropropane	2.0	U	5.0	2.0	ug/L			11/27/18 15:49	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.8	U	5.0	1.8	ug/L			11/27/18 15:49	5
1,2,4-Trimethylbenzene	2.4	U	5.0	2.4	ug/L			11/27/18 15:49	5
1,3,5-Trimethylbenzene	1.6	U	5.0	1.6	ug/L			11/27/18 15:49	5
Vinyl acetate	4.1	U	10	4.1	ug/L			11/27/18 15:49	5
Vinyl chloride	13		5.0	2.5	ug/L			11/27/18 15:49	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			11/27/18 15:49	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		11/27/18 15:49	5
Dibromofluoromethane (Surr)	98		80 - 122		11/27/18 15:49	5
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		11/27/18 15:49	5
Toluene-d8 (Surr)	97		80 - 120		11/27/18 15:49	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			11/27/18 13:02	1
Ethylene	30		1.0	0.50	ug/L			11/27/18 13:02	1
Methane (TCD)	21000		390	39	ug/L			11/27/18 13:02	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L	-		11/20/18 19:22	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	63000		1000	480	ug/L	-	11/27/18 10:42	11/29/18 03:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	160		2.1	1.0	mg/L	-		11/20/18 02:33	2.08
Total Organic Carbon - Quad	160		2.1	1.0	mg/L	-		11/20/18 02:33	2.08

Client Sample ID: OLF-G72 Port 3

Lab Sample ID: 680-160798-8

Date Collected: 11/13/18 16:20

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	18		10	7.0	ug/L	-		11/27/18 15:26	1
Acrylonitrile	10	U	20	10	ug/L			11/27/18 15:26	1
Benzene	0.74	J	1.0	0.43	ug/L			11/27/18 15:26	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/27/18 15:26	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/27/18 15:26	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/27/18 15:26	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/27/18 15:26	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/27/18 15:26	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/27/18 15:26	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/27/18 15:26	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/27/18 15:26	1
Chlorobenzene	16		1.0	0.26	ug/L			11/27/18 15:26	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/27/18 15:26	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/27/18 15:26	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/27/18 15:26	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/27/18 15:26	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/27/18 15:26	1
cis-1,2-Dichloroethene	1.0		1.0	0.41	ug/L			11/27/18 15:26	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/27/18 15:26	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/27/18 15:26	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/27/18 15:26	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/27/18 15:26	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/27/18 15:26	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/27/18 15:26	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/27/18 15:26	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/27/18 15:26	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/27/18 15:26	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/27/18 15:26	1
1,2-Dichloroethane	1.9		1.0	0.50	ug/L			11/27/18 15:26	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/27/18 15:26	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/27/18 15:26	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/27/18 15:26	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/27/18 15:26	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/27/18 15:26	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/27/18 15:26	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/27/18 15:26	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/27/18 15:26	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 3

Lab Sample ID: 680-160798-8

Date Collected: 11/13/18 16:20

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	5.0	U	10	5.0	ug/L			11/27/18 15:26	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/27/18 15:26	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/27/18 15:26	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/27/18 15:26	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/27/18 15:26	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/27/18 15:26	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/27/18 15:26	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 15:26	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/27/18 15:26	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/27/18 15:26	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/27/18 15:26	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/27/18 15:26	1
Styrene	0.27	U	1.0	0.27	ug/L			11/27/18 15:26	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/27/18 15:26	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 15:26	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/27/18 15:26	1
Tetrachloroethylene	0.74	U *	1.0	0.74	ug/L			11/27/18 15:26	1
Toluene	3.6		1.0	0.48	ug/L			11/27/18 15:26	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/27/18 15:26	1
trans-1,2-Dichloroethene	17		1.0	0.37	ug/L			11/27/18 15:26	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/27/18 15:26	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 15:26	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 15:26	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 15:26	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/27/18 15:26	1
Trichloroethene	0.95 J		1.0	0.48	ug/L			11/27/18 15:26	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/27/18 15:26	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/27/18 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/27/18 15:26	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 15:26	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/27/18 15:26	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/27/18 15:26	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/27/18 15:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/27/18 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		11/27/18 15:26	1
Dibromofluoromethane (Surr)	96		80 - 122		11/27/18 15:26	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		11/27/18 15:26	1
Toluene-d8 (Surr)	96		80 - 120		11/27/18 15:26	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	31		1.1	0.55	ug/L			11/27/18 13:14	1
Ethylene	33		1.0	0.50	ug/L			11/27/18 13:14	1
Methane (TCD)	12000		390	39	ug/L			11/27/18 13:14	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			11/20/18 19:35	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 3

Date Collected: 11/13/18 16:20

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-8

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	15000		1000	480	ug/L		11/27/18 10:42	11/29/18 04:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	2.0		1.0	0.50	mg/L			11/20/18 02:53	1
Total Organic Carbon - Quad	2.0		1.0	0.50	mg/L			11/20/18 02:53	1

Client Sample ID: OLF-G72 Port 4

Date Collected: 11/13/18 16:45

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	260		10	7.0	ug/L			11/27/18 15:03	1
Acrylonitrile	10	U	20	10	ug/L			11/27/18 15:03	1
Benzene	0.63	J	1.0	0.43	ug/L			11/27/18 15:03	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/27/18 15:03	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/27/18 15:03	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/27/18 15:03	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/27/18 15:03	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/27/18 15:03	1
2-Butanone (MEK)	14		10	3.4	ug/L			11/27/18 15:03	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/27/18 15:03	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/27/18 15:03	1
Chlorobenzene	15		1.0	0.26	ug/L			11/27/18 15:03	1
Chloroethane	7.3		5.0	2.5	ug/L			11/27/18 15:03	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/27/18 15:03	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/27/18 15:03	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/27/18 15:03	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/27/18 15:03	1
cis-1,2-Dichloroethene	16		1.0	0.41	ug/L			11/27/18 15:03	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/27/18 15:03	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/27/18 15:03	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/27/18 15:03	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/27/18 15:03	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/27/18 15:03	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/27/18 15:03	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/27/18 15:03	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/27/18 15:03	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/27/18 15:03	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/27/18 15:03	1
1,2-Dichloroethane	5.3		1.0	0.50	ug/L			11/27/18 15:03	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/27/18 15:03	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/27/18 15:03	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/27/18 15:03	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/27/18 15:03	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/27/18 15:03	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/27/18 15:03	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/27/18 15:03	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/27/18 15:03	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 4

Lab Sample ID: 680-160798-9

Date Collected: 11/13/18 16:45

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	5.0	U	10	5.0	ug/L			11/27/18 15:03	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/27/18 15:03	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/27/18 15:03	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/27/18 15:03	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/27/18 15:03	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/27/18 15:03	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/27/18 15:03	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 15:03	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/27/18 15:03	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/27/18 15:03	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/27/18 15:03	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/27/18 15:03	1
Styrene	0.27	U	1.0	0.27	ug/L			11/27/18 15:03	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/27/18 15:03	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 15:03	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/27/18 15:03	1
Tetrachloroethylene	0.74	U *	1.0	0.74	ug/L			11/27/18 15:03	1
Toluene	18		1.0	0.48	ug/L			11/27/18 15:03	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/27/18 15:03	1
trans-1,2-Dichloroethene	5.0		1.0	0.37	ug/L			11/27/18 15:03	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/27/18 15:03	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 15:03	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 15:03	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 15:03	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/27/18 15:03	1
Trichloroethene	1.9		1.0	0.48	ug/L			11/27/18 15:03	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/27/18 15:03	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/27/18 15:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/27/18 15:03	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 15:03	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/27/18 15:03	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/27/18 15:03	1
Vinyl chloride	2.4		1.0	0.50	ug/L			11/27/18 15:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/27/18 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		11/27/18 15:03	1
Dibromofluoromethane (Surr)	94		80 - 122		11/27/18 15:03	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		11/27/18 15:03	1
Toluene-d8 (Surr)	95		80 - 120		11/27/18 15:03	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.4		1.1	0.55	ug/L			11/27/18 13:27	1
Ethylene	10		1.0	0.50	ug/L			11/27/18 13:27	1
Methane (TCD)	20000		390	39	ug/L			11/27/18 13:27	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			11/20/18 19:48	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 4

Date Collected: 11/13/18 16:45

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-9

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	57000		1000	480	ug/L		11/27/18 10:42	11/29/18 03:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	51		1.0	0.50	mg/L			11/20/18 03:10	1
Total Organic Carbon - Quad	51		1.0	0.50	mg/L			11/20/18 03:10	1

Client Sample ID: TB #491

Date Collected: 11/14/18 13:00

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/27/18 11:20	1
Acrylonitrile	10	U	20	10	ug/L			11/27/18 11:20	1
Benzene	0.43	U	1.0	0.43	ug/L			11/27/18 11:20	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/27/18 11:20	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/27/18 11:20	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/27/18 11:20	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/27/18 11:20	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/27/18 11:20	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/27/18 11:20	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/27/18 11:20	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/27/18 11:20	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/27/18 11:20	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/27/18 11:20	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/27/18 11:20	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/27/18 11:20	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/27/18 11:20	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/27/18 11:20	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/27/18 11:20	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/27/18 11:20	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/27/18 11:20	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/27/18 11:20	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/27/18 11:20	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/27/18 11:20	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/27/18 11:20	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/27/18 11:20	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/27/18 11:20	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/27/18 11:20	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/27/18 11:20	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/27/18 11:20	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/27/18 11:20	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/27/18 11:20	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/27/18 11:20	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/27/18 11:20	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/27/18 11:20	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/27/18 11:20	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/27/18 11:20	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/27/18 11:20	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: TB #491

Date Collected: 11/14/18 13:00

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	5.0	U	10	5.0	ug/L			11/27/18 11:20	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/27/18 11:20	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/27/18 11:20	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/27/18 11:20	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/27/18 11:20	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/27/18 11:20	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/27/18 11:20	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 11:20	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/27/18 11:20	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/27/18 11:20	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/27/18 11:20	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/27/18 11:20	1
Styrene	0.27	U	1.0	0.27	ug/L			11/27/18 11:20	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/27/18 11:20	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 11:20	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/27/18 11:20	1
Tetrachloroethylene	0.74	U *	1.0	0.74	ug/L			11/27/18 11:20	1
Toluene	0.48	U	1.0	0.48	ug/L			11/27/18 11:20	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/27/18 11:20	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/27/18 11:20	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/27/18 11:20	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 11:20	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 11:20	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 11:20	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/27/18 11:20	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/27/18 11:20	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/27/18 11:20	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/27/18 11:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/27/18 11:20	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 11:20	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/27/18 11:20	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/27/18 11:20	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/27/18 11:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/27/18 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		11/27/18 11:20	1
Dibromofluoromethane (Surr)	98		80 - 122		11/27/18 11:20	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		11/27/18 11:20	1
Toluene-d8 (Surr)	95		80 - 120		11/27/18 11:20	1

Client Sample ID: OLF-G72 Port 6

Date Collected: 11/13/18 17:40

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/27/18 14:16	1
Acrylonitrile	10	U	20	10	ug/L			11/27/18 14:16	1
Benzene	0.43	U	1.0	0.43	ug/L			11/27/18 14:16	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 6

Lab Sample ID: 680-160798-11

Date Collected: 11/13/18 17:40

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/27/18 14:16	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/27/18 14:16	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/27/18 14:16	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/27/18 14:16	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/27/18 14:16	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/27/18 14:16	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/27/18 14:16	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/27/18 14:16	1
Chlorobenzene	0.80	J	1.0	0.26	ug/L			11/27/18 14:16	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/27/18 14:16	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/27/18 14:16	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/27/18 14:16	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/27/18 14:16	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/27/18 14:16	1
cis-1,2-Dichloroethene	19		1.0	0.41	ug/L			11/27/18 14:16	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/27/18 14:16	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/27/18 14:16	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/27/18 14:16	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/27/18 14:16	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/27/18 14:16	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/27/18 14:16	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/27/18 14:16	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/27/18 14:16	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/27/18 14:16	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/27/18 14:16	1
1,2-Dichloroethane	0.54	J	1.0	0.50	ug/L			11/27/18 14:16	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/27/18 14:16	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/27/18 14:16	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/27/18 14:16	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/27/18 14:16	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/27/18 14:16	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/27/18 14:16	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/27/18 14:16	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/27/18 14:16	1
Iodomethane	5.0	U	10	5.0	ug/L			11/27/18 14:16	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/27/18 14:16	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/27/18 14:16	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/27/18 14:16	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/27/18 14:16	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/27/18 14:16	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/27/18 14:16	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 14:16	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/27/18 14:16	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/27/18 14:16	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/27/18 14:16	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/27/18 14:16	1
Styrene	0.27	U	1.0	0.27	ug/L			11/27/18 14:16	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/27/18 14:16	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 14:16	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 6

Lab Sample ID: 680-160798-11

Date Collected: 11/13/18 17:40

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/27/18 14:16	1
Tetrachloroethylene	0.74	U *	1.0	0.74	ug/L			11/27/18 14:16	1
Toluene	1.3		1.0	0.48	ug/L			11/27/18 14:16	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/27/18 14:16	1
trans-1,2-Dichloroethene	2.1		1.0	0.37	ug/L			11/27/18 14:16	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/27/18 14:16	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 14:16	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 14:16	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 14:16	1
1,1,2-Trichloroethane	0.69	J	1.0	0.33	ug/L			11/27/18 14:16	1
Trichloroethene	40		1.0	0.48	ug/L			11/27/18 14:16	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/27/18 14:16	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/27/18 14:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/27/18 14:16	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 14:16	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/27/18 14:16	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/27/18 14:16	1
Vinyl chloride	0.59	J	1.0	0.50	ug/L			11/27/18 14:16	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/27/18 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		11/27/18 14:16	1
Dibromofluoromethane (Surr)	97		80 - 122		11/27/18 14:16	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131		11/27/18 14:16	1
Toluene-d8 (Surr)	96		80 - 120		11/27/18 14:16	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			11/27/18 15:41	1
Ethylene	1.5		1.0	0.50	ug/L			11/27/18 15:41	1
Methane (TCD)	6100		390	39	ug/L			11/27/18 15:41	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7.9		1.0	0.40	mg/L			11/20/18 20:01	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3400		1000	480	ug/L		11/27/18 10:42	11/29/18 03:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.90	J	1.0	0.50	mg/L			11/20/18 03:30	1
Total Organic Carbon - Quad	0.90	J	1.0	0.50	mg/L			11/20/18 03:30	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 5

Lab Sample ID: 680-160798-12

Date Collected: 11/13/18 17:20

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/27/18 14:39	1
Acrylonitrile	10	U	20	10	ug/L			11/27/18 14:39	1
Benzene	0.43	U	1.0	0.43	ug/L			11/27/18 14:39	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/27/18 14:39	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/27/18 14:39	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/27/18 14:39	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/27/18 14:39	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/27/18 14:39	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/27/18 14:39	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/27/18 14:39	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/27/18 14:39	1
Chlorobenzene	1.7		1.0	0.26	ug/L			11/27/18 14:39	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/27/18 14:39	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/27/18 14:39	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/27/18 14:39	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/27/18 14:39	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/27/18 14:39	1
cis-1,2-Dichloroethene	46		1.0	0.41	ug/L			11/27/18 14:39	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/27/18 14:39	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/27/18 14:39	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/27/18 14:39	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/27/18 14:39	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/27/18 14:39	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/27/18 14:39	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/27/18 14:39	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/27/18 14:39	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/27/18 14:39	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/27/18 14:39	1
1,2-Dichloroethane	2.2		1.0	0.50	ug/L			11/27/18 14:39	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/27/18 14:39	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/27/18 14:39	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/27/18 14:39	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/27/18 14:39	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/27/18 14:39	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/27/18 14:39	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/27/18 14:39	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/27/18 14:39	1
Iodomethane	5.0	U	10	5.0	ug/L			11/27/18 14:39	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/27/18 14:39	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/27/18 14:39	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/27/18 14:39	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/27/18 14:39	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/27/18 14:39	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/27/18 14:39	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 14:39	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/27/18 14:39	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/27/18 14:39	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/27/18 14:39	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/27/18 14:39	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 5

Lab Sample ID: 680-160798-12

Date Collected: 11/13/18 17:20

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/27/18 14:39	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/27/18 14:39	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 14:39	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/27/18 14:39	1
Tetrachloroethylene	0.74	U *	1.0	0.74	ug/L			11/27/18 14:39	1
Toluene	2.7		1.0	0.48	ug/L			11/27/18 14:39	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/27/18 14:39	1
trans-1,2-Dichloroethene	2.6		1.0	0.37	ug/L			11/27/18 14:39	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/27/18 14:39	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 14:39	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 14:39	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 14:39	1
1,1,2-Trichloroethane	0.33	J	1.0	0.33	ug/L			11/27/18 14:39	1
Trichloroethene	8.7		1.0	0.48	ug/L			11/27/18 14:39	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/27/18 14:39	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/27/18 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/27/18 14:39	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 14:39	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/27/18 14:39	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/27/18 14:39	1
Vinyl chloride	1.8		1.0	0.50	ug/L			11/27/18 14:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/27/18 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		11/27/18 14:39	1
Dibromofluoromethane (Surr)	96		80 - 122		11/27/18 14:39	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		11/27/18 14:39	1
Toluene-d8 (Surr)	95		80 - 120		11/27/18 14:39	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.8		1.1	0.55	ug/L			11/27/18 15:54	1
Ethylene	9.5		1.0	0.50	ug/L			11/27/18 15:54	1
Methane (TCD)	17000		390	39	ug/L			11/27/18 15:54	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2.6		1.0	0.40	mg/L			11/20/18 20:14	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	26000		1000	480	ug/L		11/27/18 11:26	11/29/18 22:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.3		1.0	0.50	mg/L			11/20/18 03:48	1
Total Organic Carbon - Quad	1.3		1.0	0.50	mg/L			11/20/18 03:48	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G08

Lab Sample ID: 680-160798-13

Date Collected: 11/14/18 10:26

Matrix: Water

Date Received: 11/15/18 13:38

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.42	J	1.0	0.40	mg/L			11/20/18 21:06	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3000		1000	480	ug/L		11/27/18 10:42	11/29/18 04:34	1

Client Sample ID: OLF-G74 Port 1

Lab Sample ID: 680-160798-14

Date Collected: 11/12/18 12:28

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/26/18 16:37	1
Acrylonitrile	10	U	20	10	ug/L			11/26/18 16:37	1
Benzene	0.43	U	1.0	0.43	ug/L			11/26/18 16:37	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/26/18 16:37	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/26/18 16:37	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/26/18 16:37	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/26/18 16:37	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/26/18 16:37	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/26/18 16:37	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/26/18 16:37	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/26/18 16:37	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/26/18 16:37	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/26/18 16:37	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/26/18 16:37	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/26/18 16:37	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/26/18 16:37	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/26/18 16:37	1
cis-1,2-Dichloroethene	1.9		1.0	0.41	ug/L			11/26/18 16:37	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/26/18 16:37	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/26/18 16:37	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/26/18 16:37	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/26/18 16:37	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/26/18 16:37	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/26/18 16:37	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/26/18 16:37	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/26/18 16:37	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/26/18 16:37	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/26/18 16:37	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/26/18 16:37	1
1,1-Dichloroethene	0.42	J	1.0	0.36	ug/L			11/26/18 16:37	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/26/18 16:37	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/26/18 16:37	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/26/18 16:37	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/26/18 16:37	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/26/18 16:37	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/26/18 16:37	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/26/18 16:37	1
Iodomethane	5.0	U	10	5.0	ug/L			11/26/18 16:37	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G74 Port 1

Lab Sample ID: 680-160798-14

Date Collected: 11/12/18 12:28

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/26/18 16:37	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/26/18 16:37	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/26/18 16:37	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/26/18 16:37	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/26/18 16:37	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/26/18 16:37	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 16:37	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/26/18 16:37	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/26/18 16:37	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/26/18 16:37	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/26/18 16:37	1
Styrene	0.27	U	1.0	0.27	ug/L			11/26/18 16:37	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/26/18 16:37	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 16:37	1
1,1,2,2-Tetrachloroethane	4.0		1.0	0.62	ug/L			11/26/18 16:37	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/26/18 16:37	1
Toluene	0.48	U	1.0	0.48	ug/L			11/26/18 16:37	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/26/18 16:37	1
trans-1,2-Dichloroethene	0.56	J B	1.0	0.37	ug/L			11/26/18 16:37	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/26/18 16:37	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 16:37	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 16:37	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 16:37	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/26/18 16:37	1
Trichloroethene	2.5		1.0	0.48	ug/L			11/26/18 16:37	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/26/18 16:37	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/26/18 16:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/26/18 16:37	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 16:37	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/26/18 16:37	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/26/18 16:37	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/26/18 16:37	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/26/18 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		11/26/18 16:37	1
Dibromofluoromethane (Surr)	93		80 - 122		11/26/18 16:37	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		11/26/18 16:37	1
Toluene-d8 (Surr)	95		80 - 120		11/26/18 16:37	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			11/20/18 21:19	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	990	J	1000	480	ug/L		11/27/18 11:26	11/29/18 21:57	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G74 Port 1

Date Collected: 11/12/18 12:28

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-14

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			11/20/18 04:06	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			11/20/18 04:06	1

Client Sample ID: OLF-G74 Port 2

Date Collected: 11/12/18 13:05

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/26/18 17:00	1
Acrylonitrile	10	U	20	10	ug/L			11/26/18 17:00	1
Benzene	0.43	U	1.0	0.43	ug/L			11/26/18 17:00	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/26/18 17:00	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/26/18 17:00	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/26/18 17:00	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/26/18 17:00	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/26/18 17:00	1
2-Butanone (MEK)	7.5	J	10	3.4	ug/L			11/26/18 17:00	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/26/18 17:00	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/26/18 17:00	1
Chlorobenzene	2.7		1.0	0.26	ug/L			11/26/18 17:00	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/26/18 17:00	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/26/18 17:00	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/26/18 17:00	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/26/18 17:00	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/26/18 17:00	1
cis-1,2-Dichloroethene	140		1.0	0.41	ug/L			11/26/18 17:00	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/26/18 17:00	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/26/18 17:00	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/26/18 17:00	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/26/18 17:00	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/26/18 17:00	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/26/18 17:00	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/26/18 17:00	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/26/18 17:00	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/26/18 17:00	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/26/18 17:00	1
1,2-Dichloroethane	0.50	J	1.0	0.50	ug/L			11/26/18 17:00	1
1,1-Dichloroethene	0.46	J	1.0	0.36	ug/L			11/26/18 17:00	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/26/18 17:00	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/26/18 17:00	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/26/18 17:00	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/26/18 17:00	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/26/18 17:00	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/26/18 17:00	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/26/18 17:00	1
Iodomethane	5.0	U	10	5.0	ug/L			11/26/18 17:00	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/26/18 17:00	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/26/18 17:00	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/26/18 17:00	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G74 Port 2

Lab Sample ID: 680-160798-15

Date Collected: 11/12/18 13:05

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/26/18 17:00	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/26/18 17:00	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/26/18 17:00	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 17:00	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/26/18 17:00	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/26/18 17:00	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/26/18 17:00	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/26/18 17:00	1
Styrene	0.27	U	1.0	0.27	ug/L			11/26/18 17:00	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/26/18 17:00	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 17:00	1
1,1,2,2-Tetrachloroethane	89		1.0	0.62	ug/L			11/26/18 17:00	1
Tetrachloroethylene	0.82 J		1.0	0.74	ug/L			11/26/18 17:00	1
Toluene	0.48	U	1.0	0.48	ug/L			11/26/18 17:00	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/26/18 17:00	1
trans-1,2-Dichloroethene	57 B		1.0	0.37	ug/L			11/26/18 17:00	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/26/18 17:00	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 17:00	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 17:00	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 17:00	1
1,1,2-Trichloroethane	9.0		1.0	0.33	ug/L			11/26/18 17:00	1
Trichloroethene	76		1.0	0.48	ug/L			11/26/18 17:00	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/26/18 17:00	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/26/18 17:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/26/18 17:00	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 17:00	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/26/18 17:00	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/26/18 17:00	1
Vinyl chloride	25		1.0	0.50	ug/L			11/26/18 17:00	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/26/18 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		11/26/18 17:00	1
Dibromofluoromethane (Surr)	94		80 - 122		11/26/18 17:00	1
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		11/26/18 17:00	1
Toluene-d8 (Surr)	95		80 - 120		11/26/18 17:00	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.48 J		1.0	0.40	mg/L			11/20/18 21:31	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	6100		1000	480	ug/L		11/27/18 10:42	11/29/18 04:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			11/20/18 04:23	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			11/20/18 04:23	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G74 Port 3

Lab Sample ID: 680-160798-16

Date Collected: 11/12/18 13:35

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/26/18 17:23	1
Acrylonitrile	10	U	20	10	ug/L			11/26/18 17:23	1
Benzene	0.43	U	1.0	0.43	ug/L			11/26/18 17:23	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/26/18 17:23	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/26/18 17:23	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/26/18 17:23	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/26/18 17:23	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/26/18 17:23	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/26/18 17:23	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/26/18 17:23	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/26/18 17:23	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/26/18 17:23	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/26/18 17:23	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/26/18 17:23	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/26/18 17:23	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/26/18 17:23	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/26/18 17:23	1
cis-1,2-Dichloroethene	13		1.0	0.41	ug/L			11/26/18 17:23	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/26/18 17:23	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/26/18 17:23	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/26/18 17:23	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/26/18 17:23	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/26/18 17:23	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/26/18 17:23	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/26/18 17:23	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/26/18 17:23	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/26/18 17:23	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/26/18 17:23	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/26/18 17:23	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/26/18 17:23	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/26/18 17:23	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/26/18 17:23	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/26/18 17:23	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/26/18 17:23	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/26/18 17:23	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/26/18 17:23	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/26/18 17:23	1
Iodomethane	5.0	U	10	5.0	ug/L			11/26/18 17:23	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/26/18 17:23	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/26/18 17:23	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/26/18 17:23	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/26/18 17:23	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/26/18 17:23	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/26/18 17:23	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 17:23	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/26/18 17:23	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/26/18 17:23	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/26/18 17:23	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/26/18 17:23	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G74 Port 3

Lab Sample ID: 680-160798-16

Date Collected: 11/12/18 13:35

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/26/18 17:23	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/26/18 17:23	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 17:23	1
1,1,2,2-Tetrachloroethane	2.5		1.0	0.62	ug/L			11/26/18 17:23	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/26/18 17:23	1
Toluene	0.48	U	1.0	0.48	ug/L			11/26/18 17:23	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/26/18 17:23	1
trans-1,2-Dichloroethene	3.4	B	1.0	0.37	ug/L			11/26/18 17:23	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/26/18 17:23	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 17:23	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 17:23	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 17:23	1
1,1,2-Trichloroethane	1.0		1.0	0.33	ug/L			11/26/18 17:23	1
Trichloroethene	98		1.0	0.48	ug/L			11/26/18 17:23	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/26/18 17:23	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/26/18 17:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/26/18 17:23	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 17:23	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/26/18 17:23	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/26/18 17:23	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/26/18 17:23	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/26/18 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		11/26/18 17:23	1
Dibromofluoromethane (Surr)	97		80 - 122		11/26/18 17:23	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		11/26/18 17:23	1
Toluene-d8 (Surr)	94		80 - 120		11/26/18 17:23	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7.9		1.0	0.40	mg/L			11/20/18 21:44	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	2900		1000	480	ug/L		11/27/18 10:42	11/29/18 03:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			11/20/18 05:16	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			11/20/18 05:16	1

Client Sample ID: OLF-G74 Port 4

Lab Sample ID: 680-160798-17

Date Collected: 11/12/18 14:20

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/26/18 17:47	1
Acrylonitrile	10	U	20	10	ug/L			11/26/18 17:47	1
Benzene	0.43	U	1.0	0.43	ug/L			11/26/18 17:47	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G74 Port 4

Lab Sample ID: 680-160798-17

Date Collected: 11/12/18 14:20

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/26/18 17:47	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/26/18 17:47	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/26/18 17:47	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/26/18 17:47	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/26/18 17:47	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/26/18 17:47	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/26/18 17:47	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/26/18 17:47	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/26/18 17:47	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/26/18 17:47	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/26/18 17:47	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/26/18 17:47	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/26/18 17:47	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/26/18 17:47	1
cis-1,2-Dichloroethene	1.5		1.0	0.41	ug/L			11/26/18 17:47	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/26/18 17:47	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/26/18 17:47	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/26/18 17:47	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/26/18 17:47	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/26/18 17:47	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/26/18 17:47	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/26/18 17:47	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/26/18 17:47	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/26/18 17:47	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/26/18 17:47	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/26/18 17:47	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/26/18 17:47	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/26/18 17:47	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/26/18 17:47	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/26/18 17:47	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/26/18 17:47	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/26/18 17:47	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/26/18 17:47	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/26/18 17:47	1
Iodomethane	5.0	U	10	5.0	ug/L			11/26/18 17:47	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/26/18 17:47	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/26/18 17:47	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/26/18 17:47	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/26/18 17:47	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/26/18 17:47	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/26/18 17:47	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 17:47	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/26/18 17:47	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/26/18 17:47	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/26/18 17:47	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/26/18 17:47	1
Styrene	0.27	U	1.0	0.27	ug/L			11/26/18 17:47	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/26/18 17:47	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 17:47	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G74 Port 4

Lab Sample ID: 680-160798-17

Date Collected: 11/12/18 14:20

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/26/18 17:47	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/26/18 17:47	1
Toluene	0.48	U	1.0	0.48	ug/L			11/26/18 17:47	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/26/18 17:47	1
trans-1,2-Dichloroethene	0.46	J B	1.0	0.37	ug/L			11/26/18 17:47	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/26/18 17:47	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 17:47	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 17:47	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 17:47	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/26/18 17:47	1
Trichloroethene	8.3		1.0	0.48	ug/L			11/26/18 17:47	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/26/18 17:47	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/26/18 17:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/26/18 17:47	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 17:47	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/26/18 17:47	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/26/18 17:47	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/26/18 17:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/26/18 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		11/26/18 17:47	1
Dibromofluoromethane (Surr)	95		80 - 122		11/26/18 17:47	1
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		11/26/18 17:47	1
Toluene-d8 (Surr)	96		80 - 120		11/26/18 17:47	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	10		1.0	0.40	mg/L			11/20/18 21:57	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	4600		1000	480	ug/L		11/27/18 10:42	11/29/18 03:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			11/20/18 05:36	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			11/20/18 05:36	1

Client Sample ID: OLF-G74 Port 5

Lab Sample ID: 680-160798-18

Date Collected: 11/12/18 15:00

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/26/18 18:07	1
Acrylonitrile	10	U	20	10	ug/L			11/26/18 18:07	1
Benzene	0.43	U	1.0	0.43	ug/L			11/26/18 18:07	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/26/18 18:07	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/26/18 18:07	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/26/18 18:07	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G74 Port 5

Lab Sample ID: 680-160798-18

Date Collected: 11/12/18 15:00

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.43	U	1.0	0.43	ug/L			11/26/18 18:07	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/26/18 18:07	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/26/18 18:07	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/26/18 18:07	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/26/18 18:07	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/26/18 18:07	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/26/18 18:07	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/26/18 18:07	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/26/18 18:07	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/26/18 18:07	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/26/18 18:07	1
cis-1,2-Dichloroethene	1.1		1.0	0.41	ug/L			11/26/18 18:07	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/26/18 18:07	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/26/18 18:07	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/26/18 18:07	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/26/18 18:07	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/26/18 18:07	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/26/18 18:07	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/26/18 18:07	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/26/18 18:07	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/26/18 18:07	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/26/18 18:07	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/26/18 18:07	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/26/18 18:07	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/26/18 18:07	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/26/18 18:07	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/26/18 18:07	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/26/18 18:07	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/26/18 18:07	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/26/18 18:07	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/26/18 18:07	1
Iodomethane	5.0	U	10	5.0	ug/L			11/26/18 18:07	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/26/18 18:07	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/26/18 18:07	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/26/18 18:07	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/26/18 18:07	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/26/18 18:07	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/26/18 18:07	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 18:07	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/26/18 18:07	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/26/18 18:07	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/26/18 18:07	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/26/18 18:07	1
Styrene	0.27	U	1.0	0.27	ug/L			11/26/18 18:07	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/26/18 18:07	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 18:07	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/26/18 18:07	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/26/18 18:07	1
Toluene	0.48	U	1.0	0.48	ug/L			11/26/18 18:07	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G74 Port 5

Lab Sample ID: 680-160798-18

Date Collected: 11/12/18 15:00

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/26/18 18:07	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/26/18 18:07	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/26/18 18:07	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 18:07	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 18:07	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 18:07	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/26/18 18:07	1
Trichloroethene	3.2		1.0	0.48	ug/L			11/26/18 18:07	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/26/18 18:07	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/26/18 18:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/26/18 18:07	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 18:07	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/26/18 18:07	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/26/18 18:07	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/26/18 18:07	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/26/18 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		11/26/18 18:07	1
Dibromofluoromethane (Surr)	97		80 - 122		11/26/18 18:07	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		11/26/18 18:07	1
Toluene-d8 (Surr)	95		80 - 120		11/26/18 18:07	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	12		1.0	0.40	mg/L			11/20/18 22:10	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	4400		1000	480	ug/L		11/27/18 10:42	11/29/18 04:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			11/20/18 05:54	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			11/20/18 05:54	1

Client Sample ID: DUP 305

Lab Sample ID: 680-160798-19

Date Collected: 11/12/18 00:00

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/24/18 17:17	1
Acrylonitrile	10	U	20	10	ug/L			11/24/18 17:17	1
Benzene	0.43	U	1.0	0.43	ug/L			11/24/18 17:17	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/24/18 17:17	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/24/18 17:17	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/24/18 17:17	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/24/18 17:17	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/24/18 17:17	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/24/18 17:17	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: DUP 305

Lab Sample ID: 680-160798-19

Date Collected: 11/12/18 00:00

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/24/18 17:17	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/24/18 17:17	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/24/18 17:17	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/24/18 17:17	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/24/18 17:17	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/24/18 17:17	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/24/18 17:17	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/24/18 17:17	1
cis-1,2-Dichloroethene	1.9		1.0	0.41	ug/L			11/24/18 17:17	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/24/18 17:17	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/24/18 17:17	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/24/18 17:17	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/24/18 17:17	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/24/18 17:17	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/24/18 17:17	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/24/18 17:17	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/24/18 17:17	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/24/18 17:17	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/24/18 17:17	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/24/18 17:17	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/24/18 17:17	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/24/18 17:17	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/24/18 17:17	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/24/18 17:17	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/24/18 17:17	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/24/18 17:17	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/24/18 17:17	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/24/18 17:17	1
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 17:17	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 17:17	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 17:17	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 17:17	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 17:17	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 17:17	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 17:17	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 17:17	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 17:17	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 17:17	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 17:17	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 17:17	1
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 17:17	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 17:17	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 17:17	1
1,1,2,2-Tetrachloroethane	3.9		1.0	0.62	ug/L			11/24/18 17:17	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 17:17	1
Toluene	0.48	U	1.0	0.48	ug/L			11/24/18 17:17	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 17:17	1
trans-1,2-Dichloroethene	0.53	J	1.0	0.37	ug/L			11/24/18 17:17	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 17:17	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: DUP 305

Lab Sample ID: 680-160798-19

Date Collected: 11/12/18 00:00

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 17:17	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 17:17	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 17:17	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/24/18 17:17	1
Trichloroethene	2.4		1.0	0.48	ug/L			11/24/18 17:17	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 17:17	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 17:17	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 17:17	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 17:17	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 17:17	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/24/18 17:17	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120		11/24/18 17:17	1
Dibromofluoromethane (Surr)	110		80 - 122		11/24/18 17:17	1
1,2-Dichloroethane-d4 (Surr)	102		73 - 131		11/24/18 17:17	1
Toluene-d8 (Surr)	102		80 - 120		11/24/18 17:17	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			11/20/18 22:23	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		11/27/18 10:42	11/29/18 03:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			11/20/18 06:12	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			11/20/18 06:12	1

Client Sample ID: OLF-G78

Lab Sample ID: 680-160798-20

Date Collected: 11/12/18 12:51

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/24/18 17:40	1
Acrylonitrile	10	U	20	10	ug/L			11/24/18 17:40	1
Benzene	0.43	U	1.0	0.43	ug/L			11/24/18 17:40	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/24/18 17:40	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/24/18 17:40	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/24/18 17:40	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/24/18 17:40	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/24/18 17:40	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/24/18 17:40	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/24/18 17:40	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/24/18 17:40	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/24/18 17:40	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G78

Lab Sample ID: 680-160798-20

Date Collected: 11/12/18 12:51

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			11/24/18 17:40	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/24/18 17:40	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/24/18 17:40	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/24/18 17:40	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/24/18 17:40	1
cis-1,2-Dichloroethene	3.2		1.0	0.41	ug/L			11/24/18 17:40	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/24/18 17:40	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/24/18 17:40	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/24/18 17:40	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/24/18 17:40	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/24/18 17:40	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/24/18 17:40	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/24/18 17:40	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/24/18 17:40	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/24/18 17:40	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/24/18 17:40	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/24/18 17:40	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/24/18 17:40	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/24/18 17:40	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/24/18 17:40	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/24/18 17:40	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/24/18 17:40	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/24/18 17:40	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/24/18 17:40	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/24/18 17:40	1
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 17:40	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 17:40	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 17:40	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 17:40	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 17:40	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 17:40	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 17:40	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 17:40	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 17:40	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 17:40	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 17:40	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 17:40	1
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 17:40	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 17:40	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 17:40	1
1,1,2,2-Tetrachloroethane	8.0		1.0	0.62	ug/L			11/24/18 17:40	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 17:40	1
Toluene	0.48	U	1.0	0.48	ug/L			11/24/18 17:40	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 17:40	1
trans-1,2-Dichloroethene	1.1		1.0	0.37	ug/L			11/24/18 17:40	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 17:40	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 17:40	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 17:40	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 17:40	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G78

Lab Sample ID: 680-160798-20

Date Collected: 11/12/18 12:51

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.39	J	1.0	0.33	ug/L			11/24/18 17:40	1
Trichloroethene	7.0		1.0	0.48	ug/L			11/24/18 17:40	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 17:40	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 17:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 17:40	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 17:40	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 17:40	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 17:40	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/24/18 17:40	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		80 - 120		11/24/18 17:40	1
Dibromofluoromethane (Surr)	104		80 - 122		11/24/18 17:40	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		11/24/18 17:40	1
Toluene-d8 (Surr)	104		80 - 120		11/24/18 17:40	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			11/20/18 22:36	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	4500		1000	480	ug/L		11/27/18 11:26	11/29/18 21:52	1

Client Sample ID: TB #492

Lab Sample ID: 680-160798-21

Date Collected: 11/14/01 13:30

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/28/18 12:33	1
Acrylonitrile	10	U	20	10	ug/L			11/28/18 12:33	1
Benzene	0.43	U	1.0	0.43	ug/L			11/28/18 12:33	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/28/18 12:33	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/28/18 12:33	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/28/18 12:33	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/28/18 12:33	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/28/18 12:33	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/28/18 12:33	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/28/18 12:33	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/28/18 12:33	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/28/18 12:33	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/28/18 12:33	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/28/18 12:33	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/18 12:33	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/28/18 12:33	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/28/18 12:33	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/28/18 12:33	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/28/18 12:33	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: TB #492

Lab Sample ID: 680-160798-21

Date Collected: 11/14/01 13:30

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/28/18 12:33	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/28/18 12:33	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/28/18 12:33	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/28/18 12:33	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/18 12:33	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/28/18 12:33	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/28/18 12:33	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/28/18 12:33	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/28/18 12:33	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/28/18 12:33	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/28/18 12:33	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/28/18 12:33	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/28/18 12:33	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/28/18 12:33	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/28/18 12:33	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/28/18 12:33	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/28/18 12:33	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/28/18 12:33	1
Iodomethane	5.0	U	10	5.0	ug/L			11/28/18 12:33	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/28/18 12:33	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/28/18 12:33	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/28/18 12:33	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/28/18 12:33	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/28/18 12:33	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/28/18 12:33	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 12:33	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/28/18 12:33	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/28/18 12:33	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/28/18 12:33	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/28/18 12:33	1
Styrene	0.27	U	1.0	0.27	ug/L			11/28/18 12:33	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/28/18 12:33	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 12:33	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/28/18 12:33	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/28/18 12:33	1
Toluene	0.48	U	1.0	0.48	ug/L			11/28/18 12:33	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/28/18 12:33	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/28/18 12:33	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/28/18 12:33	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 12:33	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 12:33	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 12:33	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/28/18 12:33	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/28/18 12:33	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/28/18 12:33	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/28/18 12:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/28/18 12:33	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 12:33	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/28/18 12:33	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: TB #492

Date Collected: 11/14/01 13:30

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-21

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/28/18 12:33	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/28/18 12:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/28/18 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120					11/28/18 12:33	1
Dibromofluoromethane (Surr)	102		80 - 122					11/28/18 12:33	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131					11/28/18 12:33	1
Toluene-d8 (Surr)	108		80 - 120					11/28/18 12:33	1

Client Sample ID: OLF-G73 Port 1

Date Collected: 11/13/18 10:30

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-22

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/24/18 18:03	1
Acrylonitrile	10	U	20	10	ug/L			11/24/18 18:03	1
Benzene	0.96	J	1.0	0.43	ug/L			11/24/18 18:03	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/24/18 18:03	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/24/18 18:03	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/24/18 18:03	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/24/18 18:03	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/24/18 18:03	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/24/18 18:03	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/24/18 18:03	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/24/18 18:03	1
Chlorobenzene	61		1.0	0.26	ug/L			11/24/18 18:03	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/24/18 18:03	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/24/18 18:03	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/24/18 18:03	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/24/18 18:03	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/24/18 18:03	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/24/18 18:03	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/24/18 18:03	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/24/18 18:03	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/24/18 18:03	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/24/18 18:03	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/24/18 18:03	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/24/18 18:03	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/24/18 18:03	1
1,4-Dichlorobenzene	0.80	J	1.0	0.46	ug/L			11/24/18 18:03	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/24/18 18:03	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/24/18 18:03	1
1,2-Dichloroethane	1.4		1.0	0.50	ug/L			11/24/18 18:03	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/24/18 18:03	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/24/18 18:03	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/24/18 18:03	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/24/18 18:03	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/24/18 18:03	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G73 Port 1

Lab Sample ID: 680-160798-22

Date Collected: 11/13/18 10:30

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/24/18 18:03	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/24/18 18:03	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/24/18 18:03	1
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 18:03	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 18:03	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 18:03	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 18:03	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 18:03	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 18:03	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 18:03	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 18:03	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 18:03	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 18:03	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 18:03	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 18:03	1
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 18:03	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 18:03	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 18:03	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/24/18 18:03	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 18:03	1
Toluene	0.48	U	1.0	0.48	ug/L			11/24/18 18:03	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 18:03	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/24/18 18:03	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 18:03	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 18:03	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 18:03	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 18:03	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/24/18 18:03	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/24/18 18:03	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 18:03	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 18:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 18:03	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 18:03	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 18:03	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 18:03	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/24/18 18:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		11/24/18 18:03	1
Dibromofluoromethane (Surr)	108		80 - 122		11/24/18 18:03	1
1,2-Dichloroethane-d4 (Surr)	101		73 - 131		11/24/18 18:03	1
Toluene-d8 (Surr)	102		80 - 120		11/24/18 18:03	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	11		1.1	0.55	ug/L			11/27/18 16:07	1
Ethylene	300		1.0	0.50	ug/L			11/27/18 16:07	1
Methane (TCD)	9600		390	39	ug/L			11/27/18 16:07	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G73 Port 1

Date Collected: 11/13/18 10:30

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-22

Matrix: Water

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			11/20/18 22:49	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	12000		1000	480	ug/L		11/27/18 10:42	11/29/18 03:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	12		1.0	0.50	mg/L			11/20/18 06:28	1
Total Organic Carbon - Quad	12		1.0	0.50	mg/L			11/20/18 06:28	1

Client Sample ID: OLF-G73 Port 2

Date Collected: 11/13/18 11:00

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-23

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/24/18 18:26	1
Acrylonitrile	10	U	20	10	ug/L			11/24/18 18:26	1
Benzene	0.45	J	1.0	0.43	ug/L			11/24/18 18:26	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/24/18 18:26	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/24/18 18:26	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/24/18 18:26	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/24/18 18:26	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/24/18 18:26	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/24/18 18:26	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/24/18 18:26	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/24/18 18:26	1
Chlorobenzene	19		1.0	0.26	ug/L			11/24/18 18:26	1
Chloroethane	2.9	J	5.0	2.5	ug/L			11/24/18 18:26	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/24/18 18:26	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/24/18 18:26	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/24/18 18:26	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/24/18 18:26	1
cis-1,2-Dichloroethene	2.0		1.0	0.41	ug/L			11/24/18 18:26	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/24/18 18:26	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/24/18 18:26	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/24/18 18:26	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/24/18 18:26	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/24/18 18:26	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/24/18 18:26	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/24/18 18:26	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/24/18 18:26	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/24/18 18:26	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/24/18 18:26	1
1,2-Dichloroethane	1.1		1.0	0.50	ug/L			11/24/18 18:26	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/24/18 18:26	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/24/18 18:26	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/24/18 18:26	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/24/18 18:26	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G73 Port 2

Lab Sample ID: 680-160798-23

Date Collected: 11/13/18 11:00

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/24/18 18:26	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/24/18 18:26	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/24/18 18:26	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/24/18 18:26	1
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 18:26	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 18:26	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 18:26	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 18:26	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 18:26	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 18:26	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 18:26	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 18:26	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 18:26	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 18:26	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 18:26	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 18:26	1
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 18:26	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 18:26	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 18:26	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/24/18 18:26	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 18:26	1
Toluene	0.48	U	1.0	0.48	ug/L			11/24/18 18:26	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 18:26	1
trans-1,2-Dichloroethene	7.9		1.0	0.37	ug/L			11/24/18 18:26	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 18:26	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 18:26	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 18:26	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 18:26	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/24/18 18:26	1
Trichloroethene	2.9		1.0	0.48	ug/L			11/24/18 18:26	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 18:26	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 18:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 18:26	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 18:26	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 18:26	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 18:26	1
Vinyl chloride	0.81	J	1.0	0.50	ug/L			11/24/18 18:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		11/24/18 18:26	1
Dibromofluoromethane (Surr)	105		80 - 122		11/24/18 18:26	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131		11/24/18 18:26	1
Toluene-d8 (Surr)	103		80 - 120		11/24/18 18:26	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	31		1.1	0.55	ug/L			11/27/18 16:19	1
Ethylene	2.0		1.0	0.50	ug/L			11/27/18 16:19	1
Methane (TCD)	6200		390	39	ug/L			11/27/18 16:19	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L	-		11/20/18 23:15	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	8000		1000	480	ug/L	-	11/27/18 10:42	11/29/18 03:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L	-		11/20/18 06:50	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L	-		11/20/18 06:50	1

Client Sample ID: OLF-G73 Port 3

Lab Sample ID: 680-160798-24

Date Collected: 11/13/18 11:25

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L	-		11/24/18 18:49	1
Acrylonitrile	10	U	20	10	ug/L	-		11/24/18 18:49	1
Benzene	0.43	U	1.0	0.43	ug/L	-		11/24/18 18:49	1
Bromobenzene	0.50	U	1.0	0.50	ug/L	-		11/24/18 18:49	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L	-		11/24/18 18:49	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L	-		11/24/18 18:49	1
Bromoform	0.43	U	1.0	0.43	ug/L	-		11/24/18 18:49	1
Bromomethane	2.5	U	5.0	2.5	ug/L	-		11/24/18 18:49	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L	-		11/24/18 18:49	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L	-		11/24/18 18:49	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L	-		11/24/18 18:49	1
Chlorobenzene	1.4		1.0	0.26	ug/L	-		11/24/18 18:49	1
Chloroethane	2.5	U	5.0	2.5	ug/L	-		11/24/18 18:49	1
Chloroform	0.50	U	1.0	0.50	ug/L	-		11/24/18 18:49	1
Chloromethane	0.40	U	1.0	0.40	ug/L	-		11/24/18 18:49	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L	-		11/24/18 18:49	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L	-		11/24/18 18:49	1
cis-1,2-Dichloroethene	38		1.0	0.41	ug/L	-		11/24/18 18:49	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L	-		11/24/18 18:49	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L	-		11/24/18 18:49	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L	-		11/24/18 18:49	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L	-		11/24/18 18:49	1
Dibromomethane	0.35	U	1.0	0.35	ug/L	-		11/24/18 18:49	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L	-		11/24/18 18:49	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L	-		11/24/18 18:49	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L	-		11/24/18 18:49	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L	-		11/24/18 18:49	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L	-		11/24/18 18:49	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L	-		11/24/18 18:49	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L	-		11/24/18 18:49	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L	-		11/24/18 18:49	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L	-		11/24/18 18:49	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L	-		11/24/18 18:49	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L	-		11/24/18 18:49	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L	-		11/24/18 18:49	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L	-		11/24/18 18:49	1
2-Hexanone	2.0	U	10	2.0	ug/L	-		11/24/18 18:49	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G73 Port 3

Lab Sample ID: 680-160798-24

Date Collected: 11/13/18 11:25

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 18:49	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 18:49	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 18:49	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 18:49	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 18:49	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 18:49	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 18:49	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 18:49	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 18:49	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 18:49	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 18:49	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 18:49	1
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 18:49	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 18:49	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 18:49	1
1,1,2,2-Tetrachloroethane	7.8		1.0	0.62	ug/L			11/24/18 18:49	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 18:49	1
Toluene	0.48	U	1.0	0.48	ug/L			11/24/18 18:49	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 18:49	1
trans-1,2-Dichloroethene	8.4		1.0	0.37	ug/L			11/24/18 18:49	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 18:49	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 18:49	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 18:49	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 18:49	1
1,1,2-Trichloroethane	1.2		1.0	0.33	ug/L			11/24/18 18:49	1
Trichloroethene	89		1.0	0.48	ug/L			11/24/18 18:49	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 18:49	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 18:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 18:49	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 18:49	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 18:49	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 18:49	1
Vinyl chloride	2.4		1.0	0.50	ug/L			11/24/18 18:49	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		11/24/18 18:49	1
Dibromofluoromethane (Surr)	106		80 - 122		11/24/18 18:49	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		11/24/18 18:49	1
Toluene-d8 (Surr)	103		80 - 120		11/24/18 18:49	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.84	J	1.1	0.55	ug/L			11/27/18 16:32	1
Ethylene	3.0		1.0	0.50	ug/L			11/27/18 16:32	1
Methane (TCD)	1900		390	39	ug/L			11/27/18 16:32	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	6.5		1.0	0.40	mg/L			11/27/18 19:17	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G73 Port 3

Date Collected: 11/13/18 11:25

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-24

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	46000		1000	480	ug/L		11/27/18 11:26	11/29/18 22:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			11/20/18 07:08	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			11/20/18 07:08	1

Client Sample ID: OLF-G73 Port 4

Date Collected: 11/13/18 12:00

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-25

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/24/18 19:12	1
Acrylonitrile	10	U	20	10	ug/L			11/24/18 19:12	1
Benzene	0.43	U	1.0	0.43	ug/L			11/24/18 19:12	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/24/18 19:12	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/24/18 19:12	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/24/18 19:12	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/24/18 19:12	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/24/18 19:12	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/24/18 19:12	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/24/18 19:12	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/24/18 19:12	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/24/18 19:12	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/24/18 19:12	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/24/18 19:12	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/24/18 19:12	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/24/18 19:12	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/24/18 19:12	1
cis-1,2-Dichloroethene	0.98	J	1.0	0.41	ug/L			11/24/18 19:12	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/24/18 19:12	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/24/18 19:12	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/24/18 19:12	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/24/18 19:12	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/24/18 19:12	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/24/18 19:12	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/24/18 19:12	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/24/18 19:12	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/24/18 19:12	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/24/18 19:12	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/24/18 19:12	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/24/18 19:12	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/24/18 19:12	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/24/18 19:12	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/24/18 19:12	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/24/18 19:12	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/24/18 19:12	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/24/18 19:12	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/24/18 19:12	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G73 Port 4

Lab Sample ID: 680-160798-25

Date Collected: 11/13/18 12:00

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 19:12	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 19:12	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 19:12	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 19:12	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 19:12	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 19:12	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 19:12	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 19:12	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 19:12	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 19:12	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 19:12	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 19:12	1
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 19:12	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 19:12	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 19:12	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/24/18 19:12	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 19:12	1
Toluene	0.58	J	1.0	0.48	ug/L			11/24/18 19:12	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 19:12	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/24/18 19:12	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 19:12	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 19:12	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 19:12	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 19:12	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/24/18 19:12	1
Trichloroethene	5.3		1.0	0.48	ug/L			11/24/18 19:12	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 19:12	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 19:12	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 19:12	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 19:12	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 19:12	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/24/18 19:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		80 - 120		11/24/18 19:12	1
Dibromofluoromethane (Surr)	106		80 - 122		11/24/18 19:12	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		11/24/18 19:12	1
Toluene-d8 (Surr)	103		80 - 120		11/24/18 19:12	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.0	J	1.1	0.55	ug/L			11/27/18 16:45	1
Ethylene	2.8		1.0	0.50	ug/L			11/27/18 16:45	1
Methane (TCD)	2300		390	39	ug/L			11/27/18 16:45	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	16		1.0	0.40	mg/L			11/27/18 19:30	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G73 Port 4

Date Collected: 11/13/18 12:00

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-25

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	33000		1000	480	ug/L		11/27/18 11:26	11/29/18 22:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.70	J	1.0	0.50	mg/L			11/20/18 07:26	1
Total Organic Carbon - Quad	0.70	J	1.0	0.50	mg/L			11/20/18 07:26	1

Client Sample ID: OLF-G73 Port 5

Date Collected: 11/13/18 12:30

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-26

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/24/18 19:35	1
Acrylonitrile	10	U	20	10	ug/L			11/24/18 19:35	1
Benzene	0.43	U	1.0	0.43	ug/L			11/24/18 19:35	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/24/18 19:35	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/24/18 19:35	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/24/18 19:35	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/24/18 19:35	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/24/18 19:35	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/24/18 19:35	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/24/18 19:35	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/24/18 19:35	1
Chlorobenzene	0.69	J	1.0	0.26	ug/L			11/24/18 19:35	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/24/18 19:35	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/24/18 19:35	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/24/18 19:35	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/24/18 19:35	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/24/18 19:35	1
cis-1,2-Dichloroethene	0.77	J	1.0	0.41	ug/L			11/24/18 19:35	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/24/18 19:35	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/24/18 19:35	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/24/18 19:35	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/24/18 19:35	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/24/18 19:35	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/24/18 19:35	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/24/18 19:35	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/24/18 19:35	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/24/18 19:35	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/24/18 19:35	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/24/18 19:35	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/24/18 19:35	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/24/18 19:35	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/24/18 19:35	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/24/18 19:35	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/24/18 19:35	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/24/18 19:35	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/24/18 19:35	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/24/18 19:35	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G73 Port 5

Lab Sample ID: 680-160798-26

Date Collected: 11/13/18 12:30

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 19:35	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 19:35	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 19:35	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 19:35	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 19:35	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 19:35	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 19:35	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 19:35	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 19:35	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 19:35	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 19:35	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 19:35	1
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 19:35	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 19:35	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 19:35	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/24/18 19:35	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 19:35	1
Toluene	0.48	U	1.0	0.48	ug/L			11/24/18 19:35	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 19:35	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/24/18 19:35	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 19:35	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 19:35	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 19:35	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 19:35	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/24/18 19:35	1
Trichloroethene	0.53	J	1.0	0.48	ug/L			11/24/18 19:35	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 19:35	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 19:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 19:35	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 19:35	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 19:35	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 19:35	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/24/18 19:35	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		11/24/18 19:35	1
Dibromofluoromethane (Surr)	104		80 - 122		11/24/18 19:35	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131		11/24/18 19:35	1
Toluene-d8 (Surr)	103		80 - 120		11/24/18 19:35	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			11/27/18 16:58	1
Ethylene	3.5		1.0	0.50	ug/L			11/27/18 16:58	1
Methane (TCD)	740		390	39	ug/L			11/27/18 16:58	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2.0		1.0	0.40	mg/L			11/27/18 19:43	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G73 Port 5

Date Collected: 11/13/18 12:30

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-26

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	27000		1000	480	ug/L		11/27/18 11:26	11/29/18 22:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	16		1.0	0.50	mg/L			11/20/18 07:43	1
Total Organic Carbon - Quad	16		1.0	0.50	mg/L			11/20/18 07:43	1

Client Sample ID: OLF-G77

Date Collected: 11/13/18 10:21

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-27

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	70	U	100	70	ug/L			11/24/18 19:58	10
Acrylonitrile	100	U	200	100	ug/L			11/24/18 19:58	10
Benzene	4.3	U	10	4.3	ug/L			11/24/18 19:58	10
Bromobenzene	5.0	U	10	5.0	ug/L			11/24/18 19:58	10
Bromochloromethane	4.5	U	10	4.5	ug/L			11/24/18 19:58	10
Bromodichloromethane	4.4	U	10	4.4	ug/L			11/24/18 19:58	10
Bromoform	4.3	U	10	4.3	ug/L			11/24/18 19:58	10
Bromomethane	25	U	50	25	ug/L			11/24/18 19:58	10
2-Butanone (MEK)	34	U	100	34	ug/L			11/24/18 19:58	10
Carbon disulfide	10	U	20	10	ug/L			11/24/18 19:58	10
Carbon tetrachloride	3.3	U	10	3.3	ug/L			11/24/18 19:58	10
Chlorobenzene	9.4	J	10	2.6	ug/L			11/24/18 19:58	10
Chloroethane	25	U	50	25	ug/L			11/24/18 19:58	10
Chloroform	5.0	U	10	5.0	ug/L			11/24/18 19:58	10
Chloromethane	4.0	U	10	4.0	ug/L			11/24/18 19:58	10
2-Chlorotoluene	2.7	U	10	2.7	ug/L			11/24/18 19:58	10
4-Chlorotoluene	4.5	U	10	4.5	ug/L			11/24/18 19:58	10
cis-1,2-Dichloroethene	230		10	4.1	ug/L			11/24/18 19:58	10
cis-1,3-Dichloropropene	4.0	U	10	4.0	ug/L			11/24/18 19:58	10
Dibromochloromethane	3.2	U	10	3.2	ug/L			11/24/18 19:58	10
1,2-Dibromo-3-Chloropropane	11	U	50	11	ug/L			11/24/18 19:58	10
1,2-Dibromoethane	4.4	U	10	4.4	ug/L			11/24/18 19:58	10
Dibromomethane	3.5	U	10	3.5	ug/L			11/24/18 19:58	10
1,2-Dichlorobenzene	3.7	U	10	3.7	ug/L			11/24/18 19:58	10
1,3-Dichlorobenzene	4.3	U	10	4.3	ug/L			11/24/18 19:58	10
1,4-Dichlorobenzene	4.6	U	10	4.6	ug/L			11/24/18 19:58	10
Dichlorodifluoromethane	6.0	U	10	6.0	ug/L			11/24/18 19:58	10
1,1-Dichloroethane	3.8	U	10	3.8	ug/L			11/24/18 19:58	10
1,2-Dichloroethane	5.0	U	10	5.0	ug/L			11/24/18 19:58	10
1,1-Dichloroethene	3.6	U	10	3.6	ug/L			11/24/18 19:58	10
1,2-Dichloropropane	6.7	U	10	6.7	ug/L			11/24/18 19:58	10
1,3-Dichloropropane	3.4	U	10	3.4	ug/L			11/24/18 19:58	10
2,2-Dichloropropane	3.7	U	10	3.7	ug/L			11/24/18 19:58	10
1,1-Dichloropropene	3.4	U	10	3.4	ug/L			11/24/18 19:58	10
Ethylbenzene	3.3	U	10	3.3	ug/L			11/24/18 19:58	10
Hexachlorobutadiene	25	U	50	25	ug/L			11/24/18 19:58	10
2-Hexanone	20	U	100	20	ug/L			11/24/18 19:58	10

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G77

Lab Sample ID: 680-160798-27

Date Collected: 11/13/18 10:21

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	50	U	100	50	ug/L			11/24/18 19:58	10
Isopropylbenzene	3.5	U	10	3.5	ug/L			11/24/18 19:58	10
Methylene Chloride	25	U	50	25	ug/L			11/24/18 19:58	10
4-Methyl-2-pentanone	21	U	100	21	ug/L			11/24/18 19:58	10
Methyl tert-butyl ether	3.0	U	100	3.0	ug/L			11/24/18 19:58	10
m-Xylene & p-Xylene	3.5	U	10	3.5	ug/L			11/24/18 19:58	10
Naphthalene	25	U	50	25	ug/L			11/24/18 19:58	10
n-Butylbenzene	4.7	U	10	4.7	ug/L			11/24/18 19:58	10
N-Propylbenzene	3.8	U	10	3.8	ug/L			11/24/18 19:58	10
o-Xylene	2.3	U	10	2.3	ug/L			11/24/18 19:58	10
p-Isopropyltoluene	4.8	U	10	4.8	ug/L			11/24/18 19:58	10
sec-Butylbenzene	4.2	U	10	4.2	ug/L			11/24/18 19:58	10
Styrene	2.7	U	10	2.7	ug/L			11/24/18 19:58	10
tert-Butylbenzene	4.5	U	10	4.5	ug/L			11/24/18 19:58	10
1,1,1,2-Tetrachloroethane	3.7	U	10	3.7	ug/L			11/24/18 19:58	10
1,1,2,2-Tetrachloroethane	1000		10	6.2	ug/L			11/24/18 19:58	10
Tetrachloroethylene	7.4	U	10	7.4	ug/L			11/24/18 19:58	10
Toluene	4.8	U	10	4.8	ug/L			11/24/18 19:58	10
trans-1,4-Dichloro-2-butene	5.1	U	20	5.1	ug/L			11/24/18 19:58	10
trans-1,2-Dichloroethene	100		10	3.7	ug/L			11/24/18 19:58	10
trans-1,3-Dichloropropene	4.2	U	10	4.2	ug/L			11/24/18 19:58	10
1,2,3-Trichlorobenzene	25	U	50	25	ug/L			11/24/18 19:58	10
1,2,4-Trichlorobenzene	25	U	50	25	ug/L			11/24/18 19:58	10
1,1,1-Trichloroethane	3.7	U	10	3.7	ug/L			11/24/18 19:58	10
1,1,2-Trichloroethene	27		10	3.3	ug/L			11/24/18 19:58	10
Trichloroethene	620		10	4.8	ug/L			11/24/18 19:58	10
Trichlorofluoromethane	4.2	U	10	4.2	ug/L			11/24/18 19:58	10
1,2,3-Trichloropropane	3.9	U	10	3.9	ug/L			11/24/18 19:58	10
1,1,2-Trichloro-1,2,2-trifluoroethane	3.6	U	10	3.6	ug/L			11/24/18 19:58	10
1,2,4-Trimethylbenzene	4.7	U	10	4.7	ug/L			11/24/18 19:58	10
1,3,5-Trimethylbenzene	3.1	U	10	3.1	ug/L			11/24/18 19:58	10
Vinyl acetate	8.1	U	20	8.1	ug/L			11/24/18 19:58	10
Vinyl chloride	5.0	U	10	5.0	ug/L			11/24/18 19:58	10
Xylenes, Total	2.3	U	10	2.3	ug/L			11/24/18 19:58	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		80 - 120		11/24/18 19:58	10
Dibromofluoromethane (Surr)	111		80 - 122		11/24/18 19:58	10
1,2-Dichloroethane-d4 (Surr)	104		73 - 131		11/24/18 19:58	10
Toluene-d8 (Surr)	102		80 - 120		11/24/18 19:58	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			11/27/18 17:11	1
Ethylene	0.50	U	1.0	0.50	ug/L			11/27/18 17:11	1
Methane	62		0.58	0.29	ug/L			11/27/18 17:11	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2.3		1.0	0.40	mg/L			11/27/18 19:55	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G77

Date Collected: 11/13/18 10:21

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-27

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	15000		1000	480	ug/L		11/27/18 11:26	11/29/18 22:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			11/20/18 08:06	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			11/20/18 08:06	1

Client Sample ID: OLF-G20

Date Collected: 11/13/18 15:26

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-28

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/24/18 20:22	1
Acrylonitrile	10	U	20	10	ug/L			11/24/18 20:22	1
Benzene	0.57	J	1.0	0.43	ug/L			11/24/18 20:22	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/24/18 20:22	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/24/18 20:22	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/24/18 20:22	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/24/18 20:22	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/24/18 20:22	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/24/18 20:22	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/24/18 20:22	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/24/18 20:22	1
Chlorobenzene	2.2		1.0	0.26	ug/L			11/24/18 20:22	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/24/18 20:22	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/24/18 20:22	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/24/18 20:22	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/24/18 20:22	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/24/18 20:22	1
cis-1,2-Dichloroethene	8.6		1.0	0.41	ug/L			11/24/18 20:22	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/24/18 20:22	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/24/18 20:22	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/24/18 20:22	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/24/18 20:22	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/24/18 20:22	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/24/18 20:22	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/24/18 20:22	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/24/18 20:22	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/24/18 20:22	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/24/18 20:22	1
1,2-Dichloroethane	0.54	J	1.0	0.50	ug/L			11/24/18 20:22	1
1,1-Dichloroethene	3.4		1.0	0.36	ug/L			11/24/18 20:22	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/24/18 20:22	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/24/18 20:22	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/24/18 20:22	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/24/18 20:22	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/24/18 20:22	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/24/18 20:22	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/24/18 20:22	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G20

Lab Sample ID: 680-160798-28

Date Collected: 11/13/18 15:26

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 20:22	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 20:22	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 20:22	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 20:22	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 20:22	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 20:22	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 20:22	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 20:22	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 20:22	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 20:22	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 20:22	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 20:22	1
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 20:22	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 20:22	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 20:22	1
1,1,2,2-Tetrachloroethane	1.3		1.0	0.62	ug/L			11/24/18 20:22	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 20:22	1
Toluene	0.48	U	1.0	0.48	ug/L			11/24/18 20:22	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 20:22	1
trans-1,2-Dichloroethene	3.0		1.0	0.37	ug/L			11/24/18 20:22	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 20:22	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 20:22	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 20:22	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 20:22	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/24/18 20:22	1
Trichloroethene	16		1.0	0.48	ug/L			11/24/18 20:22	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 20:22	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 20:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 20:22	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 20:22	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 20:22	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 20:22	1
Vinyl chloride	10		1.0	0.50	ug/L			11/24/18 20:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		11/24/18 20:22	1
Dibromofluoromethane (Surr)	108		80 - 122		11/24/18 20:22	1
1,2-Dichloroethane-d4 (Surr)	102		73 - 131		11/24/18 20:22	1
Toluene-d8 (Surr)	101		80 - 120		11/24/18 20:22	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.2		1.0	0.40	mg/L			11/27/18 20:08	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	8600		1000	480	ug/L		11/27/18 11:26	11/29/18 22:14	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G07

Lab Sample ID: 680-160798-29

Date Collected: 11/13/18 13:01

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/24/18 20:45	1
Acrylonitrile	10	U	20	10	ug/L			11/24/18 20:45	1
Benzene	0.43	U	1.0	0.43	ug/L			11/24/18 20:45	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/24/18 20:45	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/24/18 20:45	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/24/18 20:45	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/24/18 20:45	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/24/18 20:45	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/24/18 20:45	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/24/18 20:45	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/24/18 20:45	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/24/18 20:45	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/24/18 20:45	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/24/18 20:45	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/24/18 20:45	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/24/18 20:45	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/24/18 20:45	1
cis-1,2-Dichloroethene	2.2		1.0	0.41	ug/L			11/24/18 20:45	1
cis-1,3-Dichloropropene	0.40	U F1	1.0	0.40	ug/L			11/24/18 20:45	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/24/18 20:45	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/24/18 20:45	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/24/18 20:45	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/24/18 20:45	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/24/18 20:45	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/24/18 20:45	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/24/18 20:45	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/24/18 20:45	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/24/18 20:45	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/24/18 20:45	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/24/18 20:45	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/24/18 20:45	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/24/18 20:45	1
2,2-Dichloropropane	0.37	U F1	1.0	0.37	ug/L			11/24/18 20:45	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/24/18 20:45	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/24/18 20:45	1
Hexachlorobutadiene	2.5	U F1	5.0	2.5	ug/L			11/24/18 20:45	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/24/18 20:45	1
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 20:45	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 20:45	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 20:45	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 20:45	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 20:45	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 20:45	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 20:45	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 20:45	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 20:45	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 20:45	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 20:45	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 20:45	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G07

Lab Sample ID: 680-160798-29

Date Collected: 11/13/18 13:01

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 20:45	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 20:45	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 20:45	1
1,1,2,2-Tetrachloroethane	29	F1	1.0	0.62	ug/L			11/24/18 20:45	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 20:45	1
Toluene	0.48	U	1.0	0.48	ug/L			11/24/18 20:45	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 20:45	1
trans-1,2-Dichloroethene	1.3		1.0	0.37	ug/L			11/24/18 20:45	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 20:45	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 20:45	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 20:45	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 20:45	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/24/18 20:45	1
Trichloroethene	19		1.0	0.48	ug/L			11/24/18 20:45	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 20:45	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 20:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 20:45	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 20:45	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 20:45	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 20:45	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/24/18 20:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		11/24/18 20:45	1
Dibromofluoromethane (Surr)	109		80 - 122		11/24/18 20:45	1
1,2-Dichloroethane-d4 (Surr)	103		73 - 131		11/24/18 20:45	1
Toluene-d8 (Surr)	103		80 - 120		11/24/18 20:45	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.1		1.0	0.40	mg/L			11/27/18 20:21	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	4100		1000	480	ug/L		11/27/18 11:26	11/29/18 21:21	1

Client Sample ID: DUP 303

Lab Sample ID: 680-160798-30

Date Collected: 11/13/18 00:00

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/24/18 21:08	1
Acrylonitrile	10	U	20	10	ug/L			11/24/18 21:08	1
Benzene	0.55	J	1.0	0.43	ug/L			11/24/18 21:08	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/24/18 21:08	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/24/18 21:08	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/24/18 21:08	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/24/18 21:08	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: DUP 303

Lab Sample ID: 680-160798-30

Date Collected: 11/13/18 00:00

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	2.5	U	5.0	2.5	ug/L			11/24/18 21:08	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/24/18 21:08	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/24/18 21:08	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/24/18 21:08	1
Chlorobenzene	2.1		1.0	0.26	ug/L			11/24/18 21:08	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/24/18 21:08	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/24/18 21:08	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/24/18 21:08	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/24/18 21:08	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/24/18 21:08	1
cis-1,2-Dichloroethene	9.1		1.0	0.41	ug/L			11/24/18 21:08	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/24/18 21:08	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/24/18 21:08	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/24/18 21:08	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/24/18 21:08	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/24/18 21:08	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/24/18 21:08	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/24/18 21:08	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/24/18 21:08	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/24/18 21:08	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/24/18 21:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/24/18 21:08	1
1,1-Dichloroethene	3.4		1.0	0.36	ug/L			11/24/18 21:08	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/24/18 21:08	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/24/18 21:08	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/24/18 21:08	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/24/18 21:08	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/24/18 21:08	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/24/18 21:08	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/24/18 21:08	1
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 21:08	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 21:08	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 21:08	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 21:08	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 21:08	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 21:08	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 21:08	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 21:08	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 21:08	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 21:08	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 21:08	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 21:08	1
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 21:08	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 21:08	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 21:08	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/24/18 21:08	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 21:08	1
Toluene	0.48	U	1.0	0.48	ug/L			11/24/18 21:08	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 21:08	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: DUP 303

Lab Sample ID: 680-160798-30

Date Collected: 11/13/18 00:00

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	2.9		1.0	0.37	ug/L			11/24/18 21:08	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 21:08	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 21:08	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 21:08	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 21:08	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/24/18 21:08	1
Trichloroethene	17		1.0	0.48	ug/L			11/24/18 21:08	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 21:08	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 21:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 21:08	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 21:08	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 21:08	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 21:08	1
Vinyl chloride	10		1.0	0.50	ug/L			11/24/18 21:08	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		11/24/18 21:08	1
Dibromofluoromethane (Surr)	108		80 - 122		11/24/18 21:08	1
1,2-Dichloroethane-d4 (Surr)	101		73 - 131		11/24/18 21:08	1
Toluene-d8 (Surr)	103		80 - 120		11/24/18 21:08	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2.2		1.0	0.40	mg/L			11/27/18 21:00	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	7600		1000	480	ug/L		11/27/18 10:42	11/29/18 02:57	1

Client Sample ID: DUP 306

Lab Sample ID: 680-160798-31

Date Collected: 11/13/18 00:00

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	350	U	500	350	ug/L			11/24/18 21:31	50
Acrylonitrile	500	U	1000	500	ug/L			11/24/18 21:31	50
Benzene	22	U	50	22	ug/L			11/24/18 21:31	50
Bromobenzene	25	U	50	25	ug/L			11/24/18 21:31	50
Bromochloromethane	23	U	50	23	ug/L			11/24/18 21:31	50
Bromodichloromethane	22	U	50	22	ug/L			11/24/18 21:31	50
Bromoform	22	U	50	22	ug/L			11/24/18 21:31	50
Bromomethane	130	U	250	130	ug/L			11/24/18 21:31	50
2-Butanone (MEK)	170	U	500	170	ug/L			11/24/18 21:31	50
Carbon disulfide	50	U	100	50	ug/L			11/24/18 21:31	50
Carbon tetrachloride	17	U	50	17	ug/L			11/24/18 21:31	50
Chlorobenzene	13	U	50	13	ug/L			11/24/18 21:31	50
Chloroethane	130	U	250	130	ug/L			11/24/18 21:31	50
Chloroform	25	U	50	25	ug/L			11/24/18 21:31	50

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: DUP 306

Lab Sample ID: 680-160798-31

Date Collected: 11/13/18 00:00

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	20	U	50	20	ug/L			11/24/18 21:31	50
2-Chlorotoluene	14	U	50	14	ug/L			11/24/18 21:31	50
4-Chlorotoluene	23	U	50	23	ug/L			11/24/18 21:31	50
cis-1,2-Dichloroethene	270		50	21	ug/L			11/24/18 21:31	50
cis-1,3-Dichloropropene	20	U	50	20	ug/L			11/24/18 21:31	50
Dibromochloromethane	16	U	50	16	ug/L			11/24/18 21:31	50
1,2-Dibromo-3-Chloropropane	55	U	250	55	ug/L			11/24/18 21:31	50
1,2-Dibromoethane	22	U	50	22	ug/L			11/24/18 21:31	50
Dibromomethane	18	U	50	18	ug/L			11/24/18 21:31	50
1,2-Dichlorobenzene	19	U	50	19	ug/L			11/24/18 21:31	50
1,3-Dichlorobenzene	22	U	50	22	ug/L			11/24/18 21:31	50
1,4-Dichlorobenzene	23	U	50	23	ug/L			11/24/18 21:31	50
Dichlorodifluoromethane	30	U	50	30	ug/L			11/24/18 21:31	50
1,1-Dichloroethane	19	U	50	19	ug/L			11/24/18 21:31	50
1,2-Dichloroethane	25	U	50	25	ug/L			11/24/18 21:31	50
1,1-Dichloroethene	18	U	50	18	ug/L			11/24/18 21:31	50
1,2-Dichloropropane	34	U	50	34	ug/L			11/24/18 21:31	50
1,3-Dichloropropane	17	U	50	17	ug/L			11/24/18 21:31	50
2,2-Dichloropropane	19	U	50	19	ug/L			11/24/18 21:31	50
1,1-Dichloropropene	17	U	50	17	ug/L			11/24/18 21:31	50
Ethylbenzene	17	U	50	17	ug/L			11/24/18 21:31	50
Hexachlorobutadiene	130	U	250	130	ug/L			11/24/18 21:31	50
2-Hexanone	100	U	500	100	ug/L			11/24/18 21:31	50
Iodomethane	250	U	500	250	ug/L			11/24/18 21:31	50
Isopropylbenzene	18	U	50	18	ug/L			11/24/18 21:31	50
Methylene Chloride	250		250	130	ug/L			11/24/18 21:31	50
4-Methyl-2-pentanone	110	U	500	110	ug/L			11/24/18 21:31	50
Methyl tert-butyl ether	15	U	500	15	ug/L			11/24/18 21:31	50
m-Xylene & p-Xylene	18	U	50	18	ug/L			11/24/18 21:31	50
Naphthalene	130	U	250	130	ug/L			11/24/18 21:31	50
n-Butylbenzene	24	U	50	24	ug/L			11/24/18 21:31	50
N-Propylbenzene	19	U	50	19	ug/L			11/24/18 21:31	50
o-Xylene	12	U	50	12	ug/L			11/24/18 21:31	50
p-Isopropyltoluene	24	U	50	24	ug/L			11/24/18 21:31	50
sec-Butylbenzene	21	U	50	21	ug/L			11/24/18 21:31	50
Styrene	14	U	50	14	ug/L			11/24/18 21:31	50
tert-Butylbenzene	23	U	50	23	ug/L			11/24/18 21:31	50
1,1,1,2-Tetrachloroethane	19	U	50	19	ug/L			11/24/18 21:31	50
1,1,2,2-Tetrachloroethane	1100		50	31	ug/L			11/24/18 21:31	50
Tetrachloroethylene	37	U	50	37	ug/L			11/24/18 21:31	50
Toluene	24	U	50	24	ug/L			11/24/18 21:31	50
trans-1,4-Dichloro-2-butene	26	U	100	26	ug/L			11/24/18 21:31	50
trans-1,2-Dichloroethene	130		50	19	ug/L			11/24/18 21:31	50
trans-1,3-Dichloropropene	21	U	50	21	ug/L			11/24/18 21:31	50
1,2,3-Trichlorobenzene	130	U	250	130	ug/L			11/24/18 21:31	50
1,2,4-Trichlorobenzene	130	U	250	130	ug/L			11/24/18 21:31	50
1,1,1-Trichloroethane	19	U	50	19	ug/L			11/24/18 21:31	50
1,1,2-Trichloroethane	25 J		50	17	ug/L			11/24/18 21:31	50
Trichloroethene	730		50	24	ug/L			11/24/18 21:31	50

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: DUP 306

Lab Sample ID: 680-160798-31

Date Collected: 11/13/18 00:00

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	21	U	50	21	ug/L			11/24/18 21:31	50
1,2,3-Trichloropropane	20	U	50	20	ug/L			11/24/18 21:31	50
1,1,2-Trichloro-1,2,2-trifluoroethane	18	U	50	18	ug/L			11/24/18 21:31	50
1,2,4-Trimethylbenzene	24	U	50	24	ug/L			11/24/18 21:31	50
1,3,5-Trimethylbenzene	16	U	50	16	ug/L			11/24/18 21:31	50
Vinyl acetate	41	U	100	41	ug/L			11/24/18 21:31	50
Vinyl chloride	25	U	50	25	ug/L			11/24/18 21:31	50
Xylenes, Total	12	U	50	12	ug/L			11/24/18 21:31	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		80 - 120		11/24/18 21:31	50
Dibromofluoromethane (Surr)	120		80 - 122		11/24/18 21:31	50
1,2-Dichloroethane-d4 (Surr)	121		73 - 131		11/24/18 21:31	50
Toluene-d8 (Surr)	97		80 - 120		11/24/18 21:31	50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			11/27/18 17:24	1
Ethylene	0.50	U	1.0	0.50	ug/L			11/27/18 17:24	1
Methane	39		0.58	0.29	ug/L			11/27/18 17:24	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2.8		1.0	0.40	mg/L			11/27/18 21:13	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	13000		1000	480	ug/L		11/27/18 10:42	11/29/18 03:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	J	1.0	0.50	mg/L			11/19/18 22:30	1
Total Organic Carbon - Quad	0.50	J	1.0	0.50	mg/L			11/19/18 22:30	1

Client Sample ID: TB #493

Lab Sample ID: 680-160798-32

Date Collected: 11/14/18 13:45

Matrix: Water

Date Received: 11/15/18 13:38

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/24/18 16:54	1
Acrylonitrile	10	U	20	10	ug/L			11/24/18 16:54	1
Benzene	0.43	U	1.0	0.43	ug/L			11/24/18 16:54	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/24/18 16:54	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/24/18 16:54	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/24/18 16:54	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/24/18 16:54	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/24/18 16:54	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/24/18 16:54	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/24/18 16:54	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/24/18 16:54	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: TB #493

Lab Sample ID: 680-160798-32

Date Collected: 11/14/18 13:45

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/24/18 16:54	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/24/18 16:54	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/24/18 16:54	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/24/18 16:54	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/24/18 16:54	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/24/18 16:54	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/24/18 16:54	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/24/18 16:54	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/24/18 16:54	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/24/18 16:54	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/24/18 16:54	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/24/18 16:54	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/24/18 16:54	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/24/18 16:54	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/24/18 16:54	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/24/18 16:54	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/24/18 16:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/24/18 16:54	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/24/18 16:54	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/24/18 16:54	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/24/18 16:54	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/24/18 16:54	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/24/18 16:54	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/24/18 16:54	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/24/18 16:54	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/24/18 16:54	1
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 16:54	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 16:54	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 16:54	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 16:54	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 16:54	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 16:54	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 16:54	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 16:54	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 16:54	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 16:54	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 16:54	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 16:54	1
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 16:54	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 16:54	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 16:54	1
1,1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/24/18 16:54	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 16:54	1
Toluene	0.48	U	1.0	0.48	ug/L			11/24/18 16:54	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 16:54	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/24/18 16:54	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 16:54	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 16:54	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 16:54	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: TB #493

Lab Sample ID: 680-160798-32

Date Collected: 11/14/18 13:45

Matrix: Water

Date Received: 11/15/18 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 16:54	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/24/18 16:54	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/24/18 16:54	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 16:54	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 16:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 16:54	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 16:54	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 16:54	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 16:54	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/24/18 16:54	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120					11/24/18 16:54	1
Dibromofluoromethane (Surr)	109		80 - 122					11/24/18 16:54	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131					11/24/18 16:54	1
Toluene-d8 (Surr)	105		80 - 120					11/24/18 16:54	1

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-548738/10

Matrix: Water

Analysis Batch: 548738

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/24/18 16:30	1
Acrylonitrile	10	U	20	10	ug/L			11/24/18 16:30	1
Benzene	0.43	U	1.0	0.43	ug/L			11/24/18 16:30	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/24/18 16:30	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/24/18 16:30	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/24/18 16:30	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/24/18 16:30	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/24/18 16:30	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/24/18 16:30	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/24/18 16:30	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/24/18 16:30	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/24/18 16:30	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/24/18 16:30	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/24/18 16:30	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/24/18 16:30	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/24/18 16:30	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/24/18 16:30	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/24/18 16:30	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/24/18 16:30	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/24/18 16:30	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/24/18 16:30	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/24/18 16:30	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/24/18 16:30	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/24/18 16:30	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/24/18 16:30	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/24/18 16:30	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/24/18 16:30	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/24/18 16:30	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/24/18 16:30	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/24/18 16:30	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/24/18 16:30	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/24/18 16:30	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/24/18 16:30	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/24/18 16:30	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/24/18 16:30	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/24/18 16:30	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/24/18 16:30	1
Iodomethane	5.0	U	10	5.0	ug/L			11/24/18 16:30	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/24/18 16:30	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/24/18 16:30	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/24/18 16:30	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/24/18 16:30	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/24/18 16:30	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/24/18 16:30	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 16:30	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/24/18 16:30	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/24/18 16:30	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/24/18 16:30	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: MB 680-548738/10

Matrix: Water

Analysis Batch: 548738

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/24/18 16:30	1
Styrene	0.27	U	1.0	0.27	ug/L			11/24/18 16:30	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/24/18 16:30	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 16:30	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/24/18 16:30	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/24/18 16:30	1
Toluene	0.48	U	1.0	0.48	ug/L			11/24/18 16:30	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/24/18 16:30	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/24/18 16:30	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/24/18 16:30	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 16:30	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/24/18 16:30	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/24/18 16:30	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/24/18 16:30	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/24/18 16:30	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/24/18 16:30	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/24/18 16:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/24/18 16:30	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/24/18 16:30	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/24/18 16:30	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/24/18 16:30	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/24/18 16:30	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/24/18 16:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		80 - 120		11/24/18 16:30	1
Dibromofluoromethane (Surr)	102		80 - 122		11/24/18 16:30	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		11/24/18 16:30	1
Toluene-d8 (Surr)	102		80 - 120		11/24/18 16:30	1

Lab Sample ID: LCS 680-548738/4

Matrix: Water

Analysis Batch: 548738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	226		ug/L		91	70 - 135
Acrylonitrile	500	456		ug/L		91	80 - 123
Benzene	50.0	49.9		ug/L		100	80 - 120
Bromobenzene	50.0	54.9		ug/L		110	80 - 121
Bromochloromethane	50.0	49.0		ug/L		98	80 - 120
Bromodichloromethane	50.0	49.1		ug/L		98	80 - 120
Bromoform	50.0	42.7		ug/L		85	74 - 126
Bromomethane	50.0	59.8		ug/L		120	62 - 130
2-Butanone (MEK)	250	228		ug/L		91	80 - 131
Carbon disulfide	50.0	49.7		ug/L		99	80 - 120
Carbon tetrachloride	50.0	50.2		ug/L		100	76 - 123
Chlorobenzene	50.0	54.4		ug/L		109	80 - 120
Chloroethane	50.0	51.5		ug/L		103	66 - 135

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCS 680-548738/4

Matrix: Water

Analysis Batch: 548738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	51.9		ug/L		104	80 - 120
Chloromethane	50.0	50.7		ug/L		101	69 - 131
2-Chlorotoluene	50.0	56.0		ug/L		112	80 - 120
4-Chlorotoluene	50.0	55.2		ug/L		110	80 - 120
cis-1,2-Dichloroethene	50.0	47.6		ug/L		95	80 - 120
cis-1,3-Dichloropropene	50.0	49.9		ug/L		100	80 - 120
Dibromochloromethane	50.0	49.0		ug/L		98	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	49.2		ug/L		98	71 - 134
1,2-Dibromoethane	50.0	52.7		ug/L		105	80 - 120
Dibromomethane	50.0	52.0		ug/L		104	80 - 120
1,2-Dichlorobenzene	50.0	52.9		ug/L		106	80 - 120
1,3-Dichlorobenzene	50.0	54.9		ug/L		110	80 - 120
1,4-Dichlorobenzene	50.0	53.6		ug/L		107	80 - 120
Dichlorodifluoromethane	50.0	63.2		ug/L		126	47 - 155
1,1-Dichloroethane	50.0	50.1		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	50.7		ug/L		101	80 - 120
1,1-Dichloroethene	50.0	53.4		ug/L		107	76 - 120
1,2-Dichloropropane	50.0	49.5		ug/L		99	80 - 120
1,3-Dichloropropane	50.0	52.1		ug/L		104	80 - 120
2,2-Dichloropropane	50.0	56.2		ug/L		112	76 - 126
1,1-Dichloropropene	50.0	52.5		ug/L		105	80 - 120
Ethylbenzene	50.0	54.7		ug/L		109	80 - 120
Hexachlorobutadiene	50.0	48.7		ug/L		97	60 - 140
2-Hexanone	250	236		ug/L		95	74 - 127
Iodomethane	50.0	50.0		ug/L		100	52 - 142
Isopropylbenzene	50.0	55.6		ug/L		111	80 - 120
Methylene Chloride	50.0	49.5		ug/L		99	80 - 120
4-Methyl-2-pentanone	250	237		ug/L		95	76 - 124
Methyl tert-butyl ether	50.0	48.5		ug/L		97	80 - 120
m-Xylene & p-Xylene	50.0	54.4		ug/L		109	80 - 120
Naphthalene	50.0	56.8		ug/L		114	59 - 140
n-Butylbenzene	50.0	53.7		ug/L		107	80 - 120
N-Propylbenzene	50.0	56.5		ug/L		113	80 - 120
o-Xylene	50.0	54.0		ug/L		108	80 - 120
p-Isopropyltoluene	50.0	52.6		ug/L		105	80 - 120
sec-Butylbenzene	50.0	56.2		ug/L		112	80 - 120
Styrene	50.0	53.1		ug/L		106	80 - 120
tert-Butylbenzene	50.0	54.3		ug/L		109	80 - 121
1,1,1,2-Tetrachloroethane	50.0	57.9		ug/L		116	80 - 121
1,1,2,2-Tetrachloroethane	50.0	54.1		ug/L		108	80 - 120
Tetrachloroethylene	50.0	54.1		ug/L		108	80 - 121
Toluene	50.0	49.6		ug/L		99	80 - 113
trans-1,4-Dichloro-2-butene	50.0	54.6		ug/L		109	68 - 125
trans-1,2-Dichloroethene	50.0	51.0		ug/L		102	80 - 120
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	80 - 120
1,2,3-Trichlorobenzene	50.0	49.2		ug/L		98	61 - 141
1,2,4-Trichlorobenzene	50.0	48.3		ug/L		97	68 - 128
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCS 680-548738/4

Matrix: Water

Analysis Batch: 548738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	52.4		ug/L		105	80 - 120
Trichloroethene	50.0	51.9		ug/L		104	80 - 120
Trichlorofluoromethane	50.0	56.9		ug/L		114	60 - 141
1,2,3-Trichloropropane	50.0	58.6		ug/L		117	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.8		ug/L		110	79 - 124
1,2,4-Trimethylbenzene	50.0	52.8		ug/L		106	80 - 120
1,3,5-Trimethylbenzene	50.0	53.9		ug/L		108	80 - 120
Vinyl acetate	100	111		ug/L		111	67 - 135
Vinyl chloride	50.0	52.4		ug/L		105	71 - 128
Xylenes, Total	100	108		ug/L		108	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	103		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: LCSD 680-548738/5

Matrix: Water

Analysis Batch: 548738

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	220		ug/L		88	70 - 135	3	30
Acrylonitrile	500	437		ug/L		87	80 - 123	4	20
Benzene	50.0	48.9		ug/L		98	80 - 120	2	20
Bromobenzene	50.0	53.8		ug/L		108	80 - 121	2	20
Bromochloromethane	50.0	47.3		ug/L		95	80 - 120	4	20
Bromodichloromethane	50.0	48.4		ug/L		97	80 - 120	2	20
Bromoform	50.0	42.2		ug/L		84	74 - 126	1	20
Bromomethane	50.0	61.4		ug/L		123	62 - 130	3	20
2-Butanone (MEK)	250	222		ug/L		89	80 - 131	3	20
Carbon disulfide	50.0	49.2		ug/L		98	80 - 120	1	20
Carbon tetrachloride	50.0	50.3		ug/L		101	76 - 123	0	20
Chlorobenzene	50.0	53.6		ug/L		107	80 - 120	2	20
Chloroethane	50.0	48.3		ug/L		97	66 - 135	6	20
Chloroform	50.0	50.6		ug/L		101	80 - 120	3	20
Chloromethane	50.0	50.6		ug/L		101	69 - 131	0	30
2-Chlorotoluene	50.0	54.2		ug/L		108	80 - 120	3	20
4-Chlorotoluene	50.0	53.8		ug/L		108	80 - 120	3	20
cis-1,2-Dichloroethene	50.0	47.1		ug/L		94	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	48.6		ug/L		97	80 - 120	3	20
Dibromochloromethane	50.0	47.3		ug/L		95	80 - 121	4	20
1,2-Dibromo-3-Chloropropane	50.0	47.6		ug/L		95	71 - 134	3	20
1,2-Dibromoethane	50.0	50.9		ug/L		102	80 - 120	3	20
Dibromomethane	50.0	50.1		ug/L		100	80 - 120	4	20
1,2-Dichlorobenzene	50.0	52.2		ug/L		104	80 - 120	1	20
1,3-Dichlorobenzene	50.0	54.5		ug/L		109	80 - 120	1	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-548738/5

Matrix: Water

Analysis Batch: 548738

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
1,4-Dichlorobenzene	50.0	52.7		ug/L		105	80 - 120	2	20
Dichlorodifluoromethane	50.0	61.6		ug/L		123	47 - 155	3	40
1,1-Dichloroethane	50.0	49.7		ug/L		99	80 - 120	1	20
1,2-Dichloroethane	50.0	48.8		ug/L		98	80 - 120	4	50
1,1-Dichloroethene	50.0	54.1		ug/L		108	76 - 120	1	20
1,2-Dichloropropane	50.0	47.9		ug/L		96	80 - 120	3	20
1,3-Dichloropropane	50.0	48.8		ug/L		98	80 - 120	6	20
2,2-Dichloropropane	50.0	55.7		ug/L		111	76 - 126	1	20
1,1-Dichloropropene	50.0	51.8		ug/L		104	80 - 120	1	20
Ethylbenzene	50.0	55.1		ug/L		110	80 - 120	1	20
Hexachlorobutadiene	50.0	47.7		ug/L		95	60 - 140	2	20
2-Hexanone	250	225		ug/L		90	74 - 127	5	20
Iodomethane	50.0	49.6		ug/L		99	52 - 142	1	30
Isopropylbenzene	50.0	55.9		ug/L		112	80 - 120	1	20
Methylene Chloride	50.0	50.4		ug/L		101	80 - 120	2	20
4-Methyl-2-pentanone	250	227		ug/L		91	76 - 124	4	20
Methyl tert-butyl ether	50.0	47.5		ug/L		95	80 - 120	2	20
m-Xylene & p-Xylene	50.0	53.8		ug/L		108	80 - 120	1	20
Naphthalene	50.0	56.3		ug/L		113	59 - 140	1	20
n-Butylbenzene	50.0	54.0		ug/L		108	80 - 120	0	20
N-Propylbenzene	50.0	55.6		ug/L		111	80 - 120	2	20
o-Xylene	50.0	52.7		ug/L		105	80 - 120	2	30
p-Isopropyltoluene	50.0	52.8		ug/L		106	80 - 120	0	20
sec-Butylbenzene	50.0	55.0		ug/L		110	80 - 120	2	20
Styrene	50.0	52.6		ug/L		105	80 - 120	1	20
tert-Butylbenzene	50.0	53.6		ug/L		107	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	56.4		ug/L		113	80 - 121	3	20
1,1,2,2-Tetrachloroethane	50.0	53.7		ug/L		107	80 - 120	1	20
Tetrachloroethylene	50.0	53.8		ug/L		108	80 - 121	0	20
Toluene	50.0	48.8		ug/L		98	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	50.6		ug/L		101	68 - 125	8	30
trans-1,2-Dichloroethene	50.0	50.2		ug/L		100	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	47.2		ug/L		94	80 - 120	4	30
1,2,3-Trichlorobenzene	50.0	49.6		ug/L		99	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	48.9		ug/L		98	68 - 128	1	20
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	80 - 120	1	20
1,1,2-Trichloroethane	50.0	49.9		ug/L		100	80 - 120	5	20
Trichloroethene	50.0	50.7		ug/L		101	80 - 120	2	20
Trichlorofluoromethane	50.0	56.5		ug/L		113	60 - 141	1	20
1,2,3-Trichloropropane	50.0	58.3		ug/L		117	80 - 123	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.6		ug/L		111	79 - 124	2	20
1,2,4-Trimethylbenzene	50.0	51.5		ug/L		103	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	53.1		ug/L		106	80 - 120	1	20
Vinyl acetate	100	106		ug/L		106	67 - 135	4	20
Vinyl chloride	50.0	51.7		ug/L		103	71 - 128	1	20
Xylenes, Total	100	107		ug/L		107	80 - 120	2	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-548738/5

Matrix: Water

Analysis Batch: 548738

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	93		73 - 131
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: 680-160798-29 MS

Matrix: Water

Analysis Batch: 548738

Client Sample ID: OLF-G07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	7.0	U	250	242		ug/L		97	60 - 154
Acrylonitrile	10	U	500	462		ug/L		92	72 - 132
Benzene	0.43	U	50.0	50.2		ug/L		100	73 - 131
Bromobenzene	0.50	U	50.0	51.6		ug/L		103	79 - 124
Bromochloromethane	0.45	U	50.0	50.4		ug/L		101	77 - 122
Bromodichloromethane	0.44	U	50.0	49.6		ug/L		99	77 - 129
Bromoform	0.43	U	50.0	44.2		ug/L		88	69 - 135
Bromomethane	2.5	U	50.0	48.2		ug/L		96	20 - 180
2-Butanone (MEK)	3.4	U	250	221		ug/L		88	75 - 133
Carbon disulfide	1.0	U	50.0	47.6		ug/L		95	73 - 127
Carbon tetrachloride	0.33	U	50.0	47.8		ug/L		96	75 - 130
Chlorobenzene	0.26	U	50.0	51.3		ug/L		103	80 - 120
Chloroethane	2.5	U	50.0	53.4		ug/L		107	50 - 151
Chloroform	0.50	U	50.0	53.4		ug/L		107	79 - 122
Chloromethane	0.40	U	50.0	55.5		ug/L		111	63 - 126
2-Chlorotoluene	0.27	U	50.0	49.1		ug/L		98	77 - 121
4-Chlorotoluene	0.45	U	50.0	47.3		ug/L		95	80 - 120
cis-1,2-Dichloroethene	2.2		50.0	46.4		ug/L		88	80 - 122
cis-1,3-Dichloropropene	0.40	U F1	50.0	40.2		ug/L		80	80 - 133
Dibromochloromethane	0.32	U	50.0	48.8		ug/L		98	71 - 136
1,2-Dibromo-3-Chloropropane	1.1	U	50.0	55.3		ug/L		111	59 - 141
1,2-Dibromoethane	0.44	U	50.0	50.5		ug/L		101	77 - 131
Dibromomethane	0.35	U	50.0	53.0		ug/L		106	80 - 122
1,2-Dichlorobenzene	0.37	U	50.0	52.8		ug/L		106	80 - 120
1,3-Dichlorobenzene	0.43	U	50.0	52.5		ug/L		105	80 - 120
1,4-Dichlorobenzene	0.46	U	50.0	51.3		ug/L		103	80 - 120
Dichlorodifluoromethane	0.60	U	50.0	60.6		ug/L		121	51 - 140
1,1-Dichloroethane	0.38	U	50.0	52.7		ug/L		105	80 - 120
1,2-Dichloroethane	0.50	U	50.0	50.3		ug/L		101	75 - 130
1,1-Dichloroethene	0.36	U	50.0	53.8		ug/L		108	74 - 125
1,2-Dichloropropane	0.67	U	50.0	49.7		ug/L		99	80 - 123
1,3-Dichloropropane	0.34	U	50.0	49.8		ug/L		100	78 - 127
2,2-Dichloropropane	0.37	U F1	50.0	20.2	F1	ug/L		40	72 - 133
1,1-Dichloropropene	0.34	U	50.0	47.6		ug/L		95	78 - 127
Ethylbenzene	0.33	U	50.0	49.5		ug/L		99	80 - 120
Hexachlorobutadiene	2.5	U F1	50.0	33.0	F1	ug/L		66	77 - 129
2-Hexanone	2.0	U	250	223		ug/L		89	70 - 141
Iodomethane	5.0	U	50.0	49.0		ug/L		98	15 - 162

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: 680-160798-29 MS

Matrix: Water

Analysis Batch: 548738

Client Sample ID: OLF-G07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	0.35	U	50.0	47.4		ug/L		95	80 - 120
Methylene Chloride	2.5	U	50.0	53.1		ug/L		106	76 - 129
4-Methyl-2-pentanone	2.1	U	250	231		ug/L		92	75 - 135
Methyl tert-butyl ether	0.30	U	50.0	46.4		ug/L		93	74 - 135
m-Xylene & p-Xylene	0.35	U	50.0	49.4		ug/L		99	80 - 120
Naphthalene	2.5	U	50.0	55.7		ug/L		111	69 - 148
n-Butylbenzene	0.47	U	50.0	40.4		ug/L		81	78 - 124
N-Propylbenzene	0.38	U	50.0	45.1		ug/L		90	80 - 120
o-Xylene	0.23	U	50.0	49.9		ug/L		100	80 - 120
p-Isopropyltoluene	0.48	U	50.0	43.4		ug/L		87	80 - 120
sec-Butylbenzene	0.42	U	50.0	42.7		ug/L		85	76 - 125
Styrene	0.27	U	50.0	48.6		ug/L		97	80 - 122
tert-Butylbenzene	0.45	U	50.0	44.8		ug/L		90	80 - 120
1,1,1,2-Tetrachloroethane	0.37	U	50.0	56.9		ug/L		114	80 - 120
1,1,2,2-Tetrachloroethane	29	F1	50.0	106	F1	ug/L		154	72 - 128
Tetrachloroethylene	0.74	U	50.0	44.3		ug/L		89	77 - 123
Toluene	0.48	U	50.0	46.4		ug/L		93	80 - 122
trans-1,4-Dichloro-2-butene	0.51	U	50.0	38.9		ug/L		78	55 - 147
trans-1,2-Dichloroethene	1.3		50.0	51.7		ug/L		101	78 - 123
trans-1,3-Dichloropropene	0.42	U	50.0	39.3		ug/L		79	74 - 140
1,2,3-Trichlorobenzene	2.5	U	50.0	44.7		ug/L		89	61 - 151
1,2,4-Trichlorobenzene	2.5	U	50.0	41.9		ug/L		84	77 - 131
1,1,1-Trichloroethane	0.37	U	50.0	52.4		ug/L		105	74 - 128
1,1,2-Trichloroethane	0.33	U	50.0	51.1		ug/L		102	79 - 125
Trichloroethene	19		50.0	67.6		ug/L		98	80 - 123
Trichlorofluoromethane	0.42	U	50.0	56.4		ug/L		113	58 - 145
1,2,3-Trichloropropane	0.39	U	50.0	60.7		ug/L		121	70 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	50.0	45.8		ug/L		92	65 - 131
1,2,4-Trimethylbenzene	0.47	U	50.0	44.5		ug/L		89	80 - 124
1,3,5-Trimethylbenzene	0.31	U	50.0	45.2		ug/L		90	80 - 120
Vinyl acetate	0.81	U	100	53.2		ug/L		53	15 - 190
Vinyl chloride	0.50	U	50.0	56.8		ug/L		114	68 - 132
Xylenes, Total	0.23	U	100	99.3		ug/L		99	80 - 120
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		80 - 120						
Dibromofluoromethane (Surr)	105		80 - 122						
1,2-Dichloroethane-d4 (Surr)	101		73 - 131						
Toluene-d8 (Surr)	104		80 - 120						

Lab Sample ID: 680-160798-29 MSD

Matrix: Water

Analysis Batch: 548738

Client Sample ID: OLF-G07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	7.0	U	250	225		ug/L		90	60 - 154	7	30
Acrylonitrile	10	U	500	437		ug/L		87	72 - 132	6	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: 680-160798-29 MSD

Matrix: Water

Analysis Batch: 548738

Client Sample ID: OLF-G07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.43	U	50.0	49.4		ug/L		99	73 - 131	2	20
Bromobenzene	0.50	U	50.0	52.2		ug/L		104	79 - 124	1	20
Bromochloromethane	0.45	U	50.0	48.0		ug/L		96	77 - 122	5	20
Bromodichloromethane	0.44	U	50.0	48.1		ug/L		96	77 - 129	3	20
Bromoform	0.43	U	50.0	42.7		ug/L		85	69 - 135	4	20
Bromomethane	2.5	U	50.0	57.4		ug/L		115	20 - 180	17	20
2-Butanone (MEK)	3.4	U	250	212		ug/L		85	75 - 133	4	20
Carbon disulfide	1.0	U	50.0	49.3		ug/L		99	73 - 127	3	20
Carbon tetrachloride	0.33	U	50.0	51.1		ug/L		102	75 - 130	7	20
Chlorobenzene	0.26	U	50.0	52.0		ug/L		104	80 - 120	1	20
Chloroethane	2.5	U	50.0	52.0		ug/L		104	50 - 151	3	20
Chloroform	0.50	U	50.0	51.8		ug/L		104	79 - 122	3	20
Chloromethane	0.40	U	50.0	53.9		ug/L		108	63 - 126	3	30
2-Chlorotoluene	0.27	U	50.0	52.8		ug/L		106	77 - 121	7	20
4-Chlorotoluene	0.45	U	50.0	51.5		ug/L		103	80 - 120	8	20
cis-1,2-Dichloroethene	2.2		50.0	45.3		ug/L		86	80 - 122	2	20
cis-1,3-Dichloropropene	0.40	U F1	50.0	39.1	F1	ug/L		78	80 - 133	3	20
Dibromochloromethane	0.32	U	50.0	47.3		ug/L		95	71 - 136	3	20
1,2-Dibromo-3-Chloropropane	1.1	U	50.0	50.3		ug/L		101	59 - 141	9	20
1,2-Dibromoethane	0.44	U	50.0	49.1		ug/L		98	77 - 131	3	20
Dibromomethane	0.35	U	50.0	49.4		ug/L		99	80 - 122	7	20
1,2-Dichlorobenzene	0.37	U	50.0	52.3		ug/L		105	80 - 120	1	20
1,3-Dichlorobenzene	0.43	U	50.0	53.6		ug/L		107	80 - 120	2	20
1,4-Dichlorobenzene	0.46	U	50.0	51.7		ug/L		103	80 - 120	1	20
Dichlorodifluoromethane	0.60	U	50.0	63.4		ug/L		127	51 - 140	5	40
1,1-Dichloroethane	0.38	U	50.0	47.4		ug/L		95	80 - 120	11	20
1,2-Dichloroethane	0.50	U	50.0	48.9		ug/L		98	75 - 130	3	50
1,1-Dichloroethene	0.36	U	50.0	56.7		ug/L		113	74 - 125	5	20
1,2-Dichloropropane	0.67	U	50.0	47.7		ug/L		95	80 - 123	4	20
1,3-Dichloropropane	0.34	U	50.0	47.6		ug/L		95	78 - 127	4	20
2,2-Dichloropropane	0.37	U F1	50.0	19.2	F1	ug/L		38	72 - 133	5	20
1,1-Dichloropropene	0.34	U	50.0	49.9		ug/L		100	78 - 127	5	20
Ethylbenzene	0.33	U	50.0	53.5		ug/L		107	80 - 120	8	20
Hexachlorobutadiene	2.5	U F1	50.0	38.8		ug/L		78	77 - 129	16	20
2-Hexanone	2.0	U	250	214		ug/L		85	70 - 141	4	20
Iodomethane	5.0	U	50.0	51.3		ug/L		103	15 - 162	5	30
Isopropylbenzene	0.35	U	50.0	53.9		ug/L		108	80 - 120	13	20
Methylene Chloride	2.5	U	50.0	51.1		ug/L		102	76 - 129	4	20
4-Methyl-2-pentanone	2.1	U	250	217		ug/L		87	75 - 135	6	20
Methyl tert-butyl ether	0.30	U	50.0	43.6		ug/L		87	74 - 135	6	20
m-Xylene & p-Xylene	0.35	U	50.0	52.7		ug/L		105	80 - 120	6	20
Naphthalene	2.5	U	50.0	54.4		ug/L		109	69 - 148	2	20
n-Butylbenzene	0.47	U	50.0	45.9		ug/L		92	78 - 124	13	20
N-Propylbenzene	0.38	U	50.0	51.7		ug/L		103	80 - 120	14	20
o-Xylene	0.23	U	50.0	53.4		ug/L		107	80 - 120	7	30
p-Isopropyltoluene	0.48	U	50.0	49.2		ug/L		98	80 - 120	13	20
sec-Butylbenzene	0.42	U	50.0	51.1		ug/L		102	76 - 125	18	20
Styrene	0.27	U	50.0	50.9		ug/L		102	80 - 122	5	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: 680-160798-29 MSD

Matrix: Water

Analysis Batch: 548738

Client Sample ID: OLF-G07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butylbenzene	0.45	U	50.0	51.9		ug/L		104	80 - 120	15	20
1,1,1,2-Tetrachloroethane	0.37	U	50.0	56.9		ug/L		114	80 - 120	0	20
1,1,2,2-Tetrachloroethane	29	F1	50.0	95.7	F1	ug/L		133	72 - 128	11	20
Tetrachloroethylene	0.74	U	50.0	49.6		ug/L		99	77 - 123	11	20
Toluene	0.48	U	50.0	47.6		ug/L		95	80 - 122	3	20
trans-1,4-Dichloro-2-butene	0.51	U	50.0	34.4		ug/L		69	55 - 147	12	30
trans-1,2-Dichloroethene	1.3		50.0	51.7		ug/L		101	78 - 123	0	20
trans-1,3-Dichloropropene	0.42	U	50.0	37.4		ug/L		75	74 - 140	5	30
1,2,3-Trichlorobenzene	2.5	U	50.0	44.9		ug/L		90	61 - 151	1	20
1,2,4-Trichlorobenzene	2.5	U	50.0	42.9		ug/L		86	77 - 131	2	20
1,1,1-Trichloroethane	0.37	U	50.0	53.2		ug/L		106	74 - 128	2	20
1,1,2-Trichloroethane	0.33	U	50.0	48.1		ug/L		96	79 - 125	6	20
Trichloroethene	19		50.0	71.1		ug/L		105	80 - 123	5	20
Trichlorofluoromethane	0.42	U	50.0	58.8		ug/L		118	58 - 145	4	20
1,2,3-Trichloropropane	0.39	U	50.0	57.3		ug/L		115	70 - 132	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	50.0	49.2		ug/L		98	65 - 131	7	20
1,2,4-Trimethylbenzene	0.47	U	50.0	49.2		ug/L		98	80 - 124	10	20
1,3,5-Trimethylbenzene	0.31	U	50.0	50.7		ug/L		101	80 - 120	11	20
Vinyl acetate	0.81	U	100	49.1		ug/L		49	15 - 190	8	20
Vinyl chloride	0.50	U	50.0	56.0		ug/L		112	68 - 132	1	20
Xylenes, Total	0.23	U	100	106		ug/L		106	80 - 120	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	93		73 - 131
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: MB 680-548796/9

Matrix: Water

Analysis Batch: 548796

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/26/18 12:31	1
Acrylonitrile	10	U	20	10	ug/L			11/26/18 12:31	1
Benzene	0.43	U	1.0	0.43	ug/L			11/26/18 12:31	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/26/18 12:31	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/26/18 12:31	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/26/18 12:31	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/26/18 12:31	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/26/18 12:31	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/26/18 12:31	1
Carbon disulfide	1.07	J	2.0	1.0	ug/L			11/26/18 12:31	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/26/18 12:31	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/26/18 12:31	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/26/18 12:31	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/26/18 12:31	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: MB 680-548796/9

Matrix: Water

Analysis Batch: 548796

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.40	U	1.0	0.40	ug/L			11/26/18 12:31	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/26/18 12:31	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/26/18 12:31	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/26/18 12:31	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/26/18 12:31	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/26/18 12:31	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/26/18 12:31	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/26/18 12:31	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/26/18 12:31	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/26/18 12:31	1
1,3-Dichlorobenzene	0.453	J	1.0	0.43	ug/L			11/26/18 12:31	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/26/18 12:31	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/26/18 12:31	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/26/18 12:31	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/26/18 12:31	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/26/18 12:31	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/26/18 12:31	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/26/18 12:31	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/26/18 12:31	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/26/18 12:31	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/26/18 12:31	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/26/18 12:31	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/26/18 12:31	1
Iodomethane	5.0	U	10	5.0	ug/L			11/26/18 12:31	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/26/18 12:31	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/26/18 12:31	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/26/18 12:31	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/26/18 12:31	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/26/18 12:31	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/26/18 12:31	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 12:31	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/26/18 12:31	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/26/18 12:31	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/26/18 12:31	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/26/18 12:31	1
Styrene	0.27	U	1.0	0.27	ug/L			11/26/18 12:31	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/26/18 12:31	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 12:31	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/26/18 12:31	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/26/18 12:31	1
Toluene	0.48	U	1.0	0.48	ug/L			11/26/18 12:31	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/26/18 12:31	1
trans-1,2-Dichloroethene	0.480	J	1.0	0.37	ug/L			11/26/18 12:31	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/26/18 12:31	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 12:31	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/26/18 12:31	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/26/18 12:31	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/26/18 12:31	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: MB 680-548796/9

Matrix: Water

Analysis Batch: 548796

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/26/18 12:31	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/26/18 12:31	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/26/18 12:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/26/18 12:31	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/26/18 12:31	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/26/18 12:31	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/26/18 12:31	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/26/18 12:31	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/26/18 12:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		11/26/18 12:31	1
Dibromofluoromethane (Surr)	96		80 - 122		11/26/18 12:31	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		11/26/18 12:31	1
Toluene-d8 (Surr)	97		80 - 120		11/26/18 12:31	1

Lab Sample ID: LCS 680-548796/4

Matrix: Water

Analysis Batch: 548796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	252		ug/L		101	70 - 135
Acrylonitrile	500	483		ug/L		97	80 - 123
Benzene	50.0	49.2		ug/L		98	80 - 120
Bromobenzene	50.0	53.7		ug/L		107	80 - 121
Bromochloromethane	50.0	51.2		ug/L		102	80 - 120
Bromodichloromethane	50.0	48.6		ug/L		97	80 - 120
Bromoform	50.0	53.2		ug/L		106	74 - 126
Bromomethane	50.0	45.2	E	ug/L		90	62 - 130
2-Butanone (MEK)	250	240		ug/L		96	80 - 131
Carbon disulfide	50.0	52.8		ug/L		106	80 - 120
Carbon tetrachloride	50.0	49.7		ug/L		99	76 - 123
Chlorobenzene	50.0	50.8		ug/L		102	80 - 120
Chloroethane	50.0	61.3		ug/L		123	66 - 135
Chloroform	50.0	48.0		ug/L		96	80 - 120
Chloromethane	50.0	52.0		ug/L		104	69 - 131
2-Chlorotoluene	50.0	49.5		ug/L		99	80 - 120
4-Chlorotoluene	50.0	51.0		ug/L		102	80 - 120
cis-1,2-Dichloroethene	50.0	46.3		ug/L		93	80 - 120
cis-1,3-Dichloropropene	50.0	49.2		ug/L		98	80 - 120
Dibromochloromethane	50.0	50.9		ug/L		102	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	49.0		ug/L		98	71 - 134
1,2-Dibromoethane	50.0	49.1		ug/L		98	80 - 120
Dibromomethane	50.0	49.4		ug/L		99	80 - 120
1,2-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 120
1,3-Dichlorobenzene	50.0	50.9		ug/L		102	80 - 120
1,4-Dichlorobenzene	50.0	49.9		ug/L		100	80 - 120
Dichlorodifluoromethane	50.0	51.2		ug/L		102	47 - 155

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCS 680-548796/4

Matrix: Water

Analysis Batch: 548796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	48.4		ug/L		97	80 - 120
1,2-Dichloroethane	50.0	50.8		ug/L		102	80 - 120
1,1-Dichloroethene	50.0	50.1		ug/L		100	76 - 120
1,2-Dichloropropane	50.0	49.0		ug/L		98	80 - 120
1,3-Dichloropropane	50.0	48.5		ug/L		97	80 - 120
2,2-Dichloropropane	50.0	52.5		ug/L		105	76 - 126
1,1-Dichloropropene	50.0	48.9		ug/L		98	80 - 120
Ethylbenzene	50.0	51.7		ug/L		103	80 - 120
Hexachlorobutadiene	50.0	48.8		ug/L		98	60 - 140
2-Hexanone	250	244		ug/L		98	74 - 127
Iodomethane	50.0	51.4		ug/L		103	52 - 142
Isopropylbenzene	50.0	51.7		ug/L		103	80 - 120
Methylene Chloride	50.0	45.7		ug/L		91	80 - 120
4-Methyl-2-pentanone	250	241		ug/L		96	76 - 124
Methyl tert-butyl ether	50.0	48.3		ug/L		97	80 - 120
m-Xylene & p-Xylene	50.0	51.1		ug/L		102	80 - 120
Naphthalene	50.0	47.1		ug/L		94	59 - 140
n-Butylbenzene	50.0	45.2		ug/L		90	80 - 120
N-Propylbenzene	50.0	50.3		ug/L		101	80 - 120
o-Xylene	50.0	50.3		ug/L		101	80 - 120
p-Isopropyltoluene	50.0	47.5		ug/L		95	80 - 120
sec-Butylbenzene	50.0	47.6		ug/L		95	80 - 120
Styrene	50.0	51.9		ug/L		104	80 - 120
tert-Butylbenzene	50.0	50.3		ug/L		101	80 - 121
1,1,1,2-Tetrachloroethane	50.0	52.0		ug/L		104	80 - 121
1,1,2,2-Tetrachloroethane	50.0	47.4		ug/L		95	80 - 120
Tetrachloroethylene	50.0	54.3		ug/L		109	80 - 121
Toluene	50.0	50.7		ug/L		101	80 - 113
trans-1,4-Dichloro-2-butene	50.0	47.0		ug/L		94	68 - 125
trans-1,2-Dichloroethene	50.0	49.8		ug/L		100	80 - 120
trans-1,3-Dichloropropene	50.0	50.3		ug/L		101	80 - 120
1,2,3-Trichlorobenzene	50.0	47.5		ug/L		95	61 - 141
1,2,4-Trichlorobenzene	50.0	49.5		ug/L		99	68 - 128
1,1,1-Trichloroethane	50.0	49.2		ug/L		98	80 - 120
1,1,2-Trichloroethane	50.0	48.0		ug/L		96	80 - 120
Trichloroethene	50.0	46.4		ug/L		93	80 - 120
Trichlorofluoromethane	50.0	53.3		ug/L		107	60 - 141
1,2,3-Trichloropropane	50.0	49.0		ug/L		98	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.8		ug/L		94	79 - 124
1,2,4-Trimethylbenzene	50.0	49.2		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	50.0	50.9		ug/L		102	80 - 120
Vinyl acetate	100	106		ug/L		106	67 - 135
Vinyl chloride	50.0	55.5		ug/L		111	71 - 128
Xylenes, Total	100	101		ug/L		101	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCS 680-548796/4

Matrix: Water

Analysis Batch: 548796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	97		80 - 122
1,2-Dichloroethane-d4 (Surr)	99		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 680-548796/6

Matrix: Water

Analysis Batch: 548796

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	254		ug/L		102	70 - 135	1	30
Acrylonitrile	500	487		ug/L		97	80 - 123	1	20
Benzene	50.0	49.6		ug/L		99	80 - 120	1	20
Bromobenzene	50.0	52.2		ug/L		104	80 - 121	3	20
Bromochloromethane	50.0	52.1		ug/L		104	80 - 120	2	20
Bromodichloromethane	50.0	48.8		ug/L		98	80 - 120	0	20
Bromoform	50.0	50.2		ug/L		100	74 - 126	6	20
Bromomethane	50.0	44.6	E	ug/L		89	62 - 130	1	20
2-Butanone (MEK)	250	238		ug/L		95	80 - 131	1	20
Carbon disulfide	50.0	52.2		ug/L		104	80 - 120	1	20
Carbon tetrachloride	50.0	53.7		ug/L		107	76 - 123	8	20
Chlorobenzene	50.0	50.2		ug/L		100	80 - 120	1	20
Chloroethane	50.0	59.8		ug/L		120	66 - 135	3	20
Chloroform	50.0	48.5		ug/L		97	80 - 120	1	20
Chloromethane	50.0	54.3		ug/L		109	69 - 131	4	30
2-Chlorotoluene	50.0	48.4		ug/L		97	80 - 120	2	20
4-Chlorotoluene	50.0	49.7		ug/L		99	80 - 120	3	20
cis-1,2-Dichloroethene	50.0	47.2		ug/L		94	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	49.5		ug/L		99	80 - 120	1	20
Dibromochloromethane	50.0	50.1		ug/L		100	80 - 121	2	20
1,2-Dibromo-3-Chloropropane	50.0	47.2		ug/L		94	71 - 134	4	20
1,2-Dibromoethane	50.0	50.3		ug/L		101	80 - 120	2	20
Dibromomethane	50.0	49.5		ug/L		99	80 - 120	0	20
1,2-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120	2	20
1,3-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120	3	20
1,4-Dichlorobenzene	50.0	49.0		ug/L		98	80 - 120	2	20
Dichlorodifluoromethane	50.0	57.3		ug/L		115	47 - 155	11	40
1,1-Dichloroethane	50.0	49.5		ug/L		99	80 - 120	2	20
1,2-Dichloroethane	50.0	51.0		ug/L		102	80 - 120	0	50
1,1-Dichloroethene	50.0	51.0		ug/L		102	76 - 120	2	20
1,2-Dichloropropane	50.0	50.0		ug/L		100	80 - 120	2	20
1,3-Dichloropropane	50.0	48.1		ug/L		96	80 - 120	1	20
2,2-Dichloropropane	50.0	54.3		ug/L		109	76 - 126	3	20
1,1-Dichloropropene	50.0	49.7		ug/L		99	80 - 120	2	20
Ethylbenzene	50.0	50.1		ug/L		100	80 - 120	3	20
Hexachlorobutadiene	50.0	48.1		ug/L		96	60 - 140	1	20
2-Hexanone	250	244		ug/L		98	74 - 127	0	20
Iodomethane	50.0	50.9		ug/L		102	52 - 142	1	30
Isopropylbenzene	50.0	50.6		ug/L		101	80 - 120	2	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-548796/6

Matrix: Water

Analysis Batch: 548796

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
Methylene Chloride	50.0	46.0		ug/L		92	80 - 120	1	20
4-Methyl-2-pentanone	250	241		ug/L		96	76 - 124	0	20
Methyl tert-butyl ether	50.0	48.8		ug/L		98	80 - 120	1	20
m-Xylene & p-Xylene	50.0	49.8		ug/L		100	80 - 120	3	20
Naphthalene	50.0	45.2		ug/L		90	59 - 140	4	20
n-Butylbenzene	50.0	45.5		ug/L		91	80 - 120	1	20
N-Propylbenzene	50.0	50.2		ug/L		100	80 - 120	0	20
o-Xylene	50.0	48.8		ug/L		98	80 - 120	3	30
p-Isopropyltoluene	50.0	47.5		ug/L		95	80 - 120	0	20
sec-Butylbenzene	50.0	47.5		ug/L		95	80 - 120	0	20
Styrene	50.0	50.4		ug/L		101	80 - 120	3	20
tert-Butylbenzene	50.0	49.8		ug/L		100	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	80 - 121	4	20
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	80 - 120	1	20
Tetrachloroethylene	50.0	56.0		ug/L		112	80 - 121	3	20
Toluene	50.0	50.5		ug/L		101	80 - 113	0	20
trans-1,4-Dichloro-2-butene	50.0	45.9		ug/L		92	68 - 125	2	30
trans-1,2-Dichloroethene	50.0	50.6		ug/L		101	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	49.4		ug/L		99	80 - 120	2	30
1,2,3-Trichlorobenzene	50.0	47.5		ug/L		95	61 - 141	0	20
1,2,4-Trichlorobenzene	50.0	48.6		ug/L		97	68 - 128	2	20
1,1,1-Trichloroethane	50.0	50.0		ug/L		100	80 - 120	2	20
1,1,2-Trichloroethane	50.0	49.1		ug/L		98	80 - 120	2	20
Trichloroethene	50.0	46.7		ug/L		93	80 - 120	1	20
Trichlorofluoromethane	50.0	58.7		ug/L		117	60 - 141	10	20
1,2,3-Trichloropropane	50.0	49.2		ug/L		98	80 - 123	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.4		ug/L		107	79 - 124	13	20
1,2,4-Trimethylbenzene	50.0	48.2		ug/L		96	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	49.6		ug/L		99	80 - 120	3	20
Vinyl acetate	100	109		ug/L		109	67 - 135	3	20
Vinyl chloride	50.0	56.8		ug/L		114	71 - 128	2	20
Xylenes, Total	100	98.6		ug/L		99	80 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	97		80 - 122
1,2-Dichloroethane-d4 (Surr)	95		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 680-548961/9

Matrix: Water

Analysis Batch: 548961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/27/18 11:06	1
Acrylonitrile	10	U	20	10	ug/L			11/27/18 11:06	1
Benzene	0.43	U	1.0	0.43	ug/L			11/27/18 11:06	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: MB 680-548961/9

Matrix: Water

Analysis Batch: 548961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/27/18 11:06	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/27/18 11:06	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/27/18 11:06	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/27/18 11:06	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/27/18 11:06	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/27/18 11:06	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/27/18 11:06	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/27/18 11:06	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/27/18 11:06	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/27/18 11:06	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/27/18 11:06	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/27/18 11:06	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/27/18 11:06	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/27/18 11:06	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/27/18 11:06	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/27/18 11:06	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/27/18 11:06	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/27/18 11:06	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/27/18 11:06	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/27/18 11:06	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/27/18 11:06	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/27/18 11:06	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/27/18 11:06	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/27/18 11:06	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/27/18 11:06	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/27/18 11:06	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/27/18 11:06	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/27/18 11:06	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/27/18 11:06	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/27/18 11:06	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/27/18 11:06	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/27/18 11:06	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/27/18 11:06	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/27/18 11:06	1
Iodomethane	5.0	U	10	5.0	ug/L			11/27/18 11:06	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/27/18 11:06	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/27/18 11:06	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/27/18 11:06	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/27/18 11:06	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/27/18 11:06	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/27/18 11:06	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 11:06	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/27/18 11:06	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/27/18 11:06	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/27/18 11:06	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/27/18 11:06	1
Styrene	0.27	U	1.0	0.27	ug/L			11/27/18 11:06	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/27/18 11:06	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: MB 680-548961/9

Matrix: Water

Analysis Batch: 548961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 11:06	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/27/18 11:06	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/27/18 11:06	1
Toluene	0.48	U	1.0	0.48	ug/L			11/27/18 11:06	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/27/18 11:06	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/27/18 11:06	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/27/18 11:06	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 11:06	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 11:06	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 11:06	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/27/18 11:06	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/27/18 11:06	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/27/18 11:06	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/27/18 11:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/27/18 11:06	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 11:06	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/27/18 11:06	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/27/18 11:06	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/27/18 11:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/27/18 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		80 - 120		11/27/18 11:06	1
Dibromofluoromethane (Surr)	104		80 - 122		11/27/18 11:06	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		11/27/18 11:06	1
Toluene-d8 (Surr)	103		80 - 120		11/27/18 11:06	1

Lab Sample ID: LCS 680-548961/4

Matrix: Water

Analysis Batch: 548961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	220		ug/L		88	70 - 135
Acrylonitrile	500	444		ug/L		89	80 - 123
Benzene	50.0	49.2		ug/L		98	80 - 120
Bromobenzene	50.0	52.7		ug/L		105	80 - 121
Bromochloromethane	50.0	54.4		ug/L		109	80 - 120
Bromodichloromethane	50.0	53.9		ug/L		108	80 - 120
Bromoform	50.0	57.3		ug/L		115	74 - 126
Bromomethane	50.0	47.0		ug/L		94	62 - 130
2-Butanone (MEK)	250	243		ug/L		97	80 - 131
Carbon disulfide	50.0	49.3		ug/L		99	80 - 120
Carbon tetrachloride	50.0	58.2		ug/L		116	76 - 123
Chlorobenzene	50.0	50.3		ug/L		101	80 - 120
Chloroethane	50.0	48.9		ug/L		98	66 - 135
Chloroform	50.0	53.6		ug/L		107	80 - 120
Chloromethane	50.0	40.0		ug/L		80	69 - 131
2-Chlorotoluene	50.0	49.6		ug/L		99	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCS 680-548961/4

Matrix: Water

Analysis Batch: 548961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	50.2		ug/L		100	80 - 120
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 120
cis-1,3-Dichloropropene	50.0	44.5		ug/L		89	80 - 120
Dibromochloromethane	50.0	53.9		ug/L		108	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	54.1		ug/L		108	71 - 134
1,2-Dibromoethane	50.0	50.1		ug/L		100	80 - 120
Dibromomethane	50.0	50.6		ug/L		101	80 - 120
1,2-Dichlorobenzene	50.0	47.9		ug/L		96	80 - 120
1,3-Dichlorobenzene	50.0	47.1		ug/L		94	80 - 120
1,4-Dichlorobenzene	50.0	47.2		ug/L		94	80 - 120
Dichlorodifluoromethane	50.0	47.6		ug/L		95	47 - 155
1,1-Dichloroethane	50.0	47.9		ug/L		96	80 - 120
1,2-Dichloroethane	50.0	52.5		ug/L		105	80 - 120
1,1-Dichloroethene	50.0	47.0		ug/L		94	76 - 120
1,2-Dichloropropane	50.0	48.1		ug/L		96	80 - 120
1,3-Dichloropropane	50.0	46.9		ug/L		94	80 - 120
2,2-Dichloropropane	50.0	57.1		ug/L		114	76 - 126
1,1-Dichloropropene	50.0	53.3		ug/L		107	80 - 120
Ethylbenzene	50.0	48.5		ug/L		97	80 - 120
Hexachlorobutadiene	50.0	55.4		ug/L		111	60 - 140
2-Hexanone	250	209		ug/L		83	74 - 127
Iodomethane	50.0	48.5		ug/L		97	52 - 142
Isopropylbenzene	50.0	49.4		ug/L		99	80 - 120
Methylene Chloride	50.0	47.0		ug/L		94	80 - 120
4-Methyl-2-pentanone	250	216		ug/L		86	76 - 124
Methyl tert-butyl ether	50.0	49.9		ug/L		100	80 - 120
m-Xylene & p-Xylene	50.0	49.8		ug/L		100	80 - 120
Naphthalene	50.0	49.7		ug/L		99	59 - 140
n-Butylbenzene	50.0	46.2		ug/L		92	80 - 120
N-Propylbenzene	50.0	50.5		ug/L		101	80 - 120
o-Xylene	50.0	49.7		ug/L		99	80 - 120
p-Isopropyltoluene	50.0	47.3		ug/L		95	80 - 120
sec-Butylbenzene	50.0	50.0		ug/L		100	80 - 120
Styrene	50.0	50.3		ug/L		101	80 - 120
tert-Butylbenzene	50.0	51.1		ug/L		102	80 - 121
1,1,1,2-Tetrachloroethane	50.0	52.6		ug/L		105	80 - 121
1,1,2,2-Tetrachloroethane	50.0	47.9		ug/L		96	80 - 120
Tetrachloroethylene	50.0	51.3		ug/L		103	80 - 121
Toluene	50.0	48.9		ug/L		98	80 - 113
trans-1,4-Dichloro-2-butene	50.0	56.1		ug/L		112	68 - 125
trans-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120
trans-1,3-Dichloropropene	50.0	50.2		ug/L		100	80 - 120
1,2,3-Trichlorobenzene	50.0	56.8		ug/L		114	61 - 141
1,2,4-Trichlorobenzene	50.0	55.9		ug/L		112	68 - 128
1,1,1-Trichloroethane	50.0	56.1		ug/L		112	80 - 120
1,1,2-Trichloroethane	50.0	47.1		ug/L		94	80 - 120
Trichloroethene	50.0	52.0		ug/L		104	80 - 120
Trichlorofluoromethane	50.0	56.0		ug/L		112	60 - 141

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCS 680-548961/4

Matrix: Water

Analysis Batch: 548961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	50.1		ug/L		100	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/L		102	79 - 124
1,2,4-Trimethylbenzene	50.0	51.0		ug/L		102	80 - 120
1,3,5-Trimethylbenzene	50.0	50.6		ug/L		101	80 - 120
Vinyl acetate	100	94.8		ug/L		95	67 - 135
Vinyl chloride	50.0	42.9		ug/L		86	71 - 128
Xylenes, Total	100	99.5		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		80 - 120
Dibromofluoromethane (Surr)	110		80 - 122
1,2-Dichloroethane-d4 (Surr)	103		73 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 680-548961/5

Matrix: Water

Analysis Batch: 548961

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	205		ug/L		82	70 - 135	7	30
Acrylonitrile	500	414		ug/L		83	80 - 123	7	20
Benzene	50.0	48.0		ug/L		96	80 - 120	2	20
Bromobenzene	50.0	51.7		ug/L		103	80 - 121	2	20
Bromochloromethane	50.0	52.1		ug/L		104	80 - 120	4	20
Bromodichloromethane	50.0	53.2		ug/L		106	80 - 120	1	20
Bromoform	50.0	54.7		ug/L		109	74 - 126	5	20
Bromomethane	50.0	47.3		ug/L		95	62 - 130	1	20
2-Butanone (MEK)	250	229		ug/L		91	80 - 131	6	20
Carbon disulfide	50.0	49.1		ug/L		98	80 - 120	0	20
Carbon tetrachloride	50.0	57.3		ug/L		115	76 - 123	2	20
Chlorobenzene	50.0	49.7		ug/L		99	80 - 120	1	20
Chloroethane	50.0	48.9		ug/L		98	66 - 135	0	20
Chloroform	50.0	53.2		ug/L		106	80 - 120	1	20
Chloromethane	50.0	39.4		ug/L		79	69 - 131	1	30
2-Chlorotoluene	50.0	49.3		ug/L		99	80 - 120	1	20
4-Chlorotoluene	50.0	50.7		ug/L		101	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	42.7		ug/L		85	80 - 120	4	20
Dibromochloromethane	50.0	52.0		ug/L		104	80 - 121	4	20
1,2-Dibromo-3-Chloropropane	50.0	51.8		ug/L		104	71 - 134	4	20
1,2-Dibromoethane	50.0	48.2		ug/L		96	80 - 120	4	20
Dibromomethane	50.0	50.3		ug/L		101	80 - 120	1	20
1,2-Dichlorobenzene	50.0	46.7		ug/L		93	80 - 120	3	20
1,3-Dichlorobenzene	50.0	48.0		ug/L		96	80 - 120	2	20
1,4-Dichlorobenzene	50.0	47.9		ug/L		96	80 - 120	1	20
Dichlorodifluoromethane	50.0	46.5		ug/L		93	47 - 155	2	40
1,1-Dichloroethane	50.0	47.4		ug/L		95	80 - 120	1	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-548961/5

Matrix: Water

Analysis Batch: 548961

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	50.8		ug/L		102	80 - 120	3	50
1,1-Dichloroethene	50.0	47.5		ug/L		95	76 - 120	1	20
1,2-Dichloropropane	50.0	46.8		ug/L		94	80 - 120	3	20
1,3-Dichloropropane	50.0	45.0		ug/L		90	80 - 120	4	20
2,2-Dichloropropane	50.0	55.9		ug/L		112	76 - 126	2	20
1,1-Dichloropropene	50.0	53.4		ug/L		107	80 - 120	0	20
Ethylbenzene	50.0	49.4		ug/L		99	80 - 120	2	20
Hexachlorobutadiene	50.0	57.0		ug/L		114	60 - 140	3	20
2-Hexanone	250	198		ug/L		79	74 - 127	5	20
Iodomethane	50.0	49.7		ug/L		99	52 - 142	2	30
Isopropylbenzene	50.0	49.4		ug/L		99	80 - 120	0	20
Methylene Chloride	50.0	45.0		ug/L		90	80 - 120	4	20
4-Methyl-2-pentanone	250	205		ug/L		82	76 - 124	5	20
Methyl tert-butyl ether	50.0	47.9		ug/L		96	80 - 120	4	20
m-Xylene & p-Xylene	50.0	50.3		ug/L		101	80 - 120	1	20
Naphthalene	50.0	49.4		ug/L		99	59 - 140	0	20
n-Butylbenzene	50.0	47.3		ug/L		95	80 - 120	2	20
N-Propylbenzene	50.0	49.8		ug/L		100	80 - 120	1	20
o-Xylene	50.0	49.4		ug/L		99	80 - 120	1	30
p-Isopropyltoluene	50.0	47.9		ug/L		96	80 - 120	1	20
sec-Butylbenzene	50.0	50.3		ug/L		101	80 - 120	1	20
Styrene	50.0	49.6		ug/L		99	80 - 120	1	20
tert-Butylbenzene	50.0	51.4		ug/L		103	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	51.6		ug/L		103	80 - 121	2	20
1,1,2,2-Tetrachloroethane	50.0	45.8		ug/L		92	80 - 120	4	20
Tetrachloroethylene	50.0	51.8		ug/L		104	80 - 121	1	20
Toluene	50.0	48.2		ug/L		96	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	54.2		ug/L		108	68 - 125	3	30
trans-1,2-Dichloroethene	50.0	50.6		ug/L		101	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	47.5		ug/L		95	80 - 120	5	30
1,2,3-Trichlorobenzene	50.0	56.3		ug/L		113	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	55.0		ug/L		110	68 - 128	1	20
1,1,1-Trichloroethane	50.0	55.7		ug/L		111	80 - 120	1	20
1,1,2-Trichloroethane	50.0	45.2		ug/L		90	80 - 120	4	20
Trichloroethene	50.0	51.4		ug/L		103	80 - 120	1	20
Trichlorofluoromethane	50.0	56.7		ug/L		113	60 - 141	1	20
1,2,3-Trichloropropane	50.0	47.0		ug/L		94	80 - 123	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.1		ug/L		104	79 - 124	2	20
1,2,4-Trimethylbenzene	50.0	49.9		ug/L		100	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	51.0		ug/L		102	80 - 120	1	20
Vinyl acetate	100	89.3		ug/L		89	67 - 135	6	20
Vinyl chloride	50.0	42.3		ug/L		85	71 - 128	1	20
Xylenes, Total	100	99.7		ug/L		100	80 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		80 - 120
Dibromofluoromethane (Surr)	110		80 - 122

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-548961/5

Matrix: Water

Analysis Batch: 548961

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		73 - 131
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: MB 680-548964/9

Matrix: Water

Analysis Batch: 548964

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	7.0	U	10	7.0	ug/L			11/27/18 10:56	1
Acrylonitrile	10	U	20	10	ug/L			11/27/18 10:56	1
Benzene	0.43	U	1.0	0.43	ug/L			11/27/18 10:56	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/27/18 10:56	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/27/18 10:56	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/27/18 10:56	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/27/18 10:56	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/27/18 10:56	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/27/18 10:56	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/27/18 10:56	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/27/18 10:56	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/27/18 10:56	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/27/18 10:56	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/27/18 10:56	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/27/18 10:56	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/27/18 10:56	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/27/18 10:56	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/27/18 10:56	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/27/18 10:56	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/27/18 10:56	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/27/18 10:56	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/27/18 10:56	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/27/18 10:56	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/27/18 10:56	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/27/18 10:56	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/27/18 10:56	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/27/18 10:56	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/27/18 10:56	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/27/18 10:56	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/27/18 10:56	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/27/18 10:56	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/27/18 10:56	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/27/18 10:56	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/27/18 10:56	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/27/18 10:56	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/27/18 10:56	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/27/18 10:56	1
Iodomethane	5.0	U	10	5.0	ug/L			11/27/18 10:56	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/27/18 10:56	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/27/18 10:56	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: MB 680-548964/9

Matrix: Water

Analysis Batch: 548964

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/27/18 10:56	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/27/18 10:56	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/27/18 10:56	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/27/18 10:56	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 10:56	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/27/18 10:56	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/27/18 10:56	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/27/18 10:56	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/27/18 10:56	1
Styrene	0.27	U	1.0	0.27	ug/L			11/27/18 10:56	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/27/18 10:56	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 10:56	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/27/18 10:56	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/27/18 10:56	1
Toluene	0.48	U	1.0	0.48	ug/L			11/27/18 10:56	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/27/18 10:56	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/27/18 10:56	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/27/18 10:56	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 10:56	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/27/18 10:56	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/27/18 10:56	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/27/18 10:56	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/27/18 10:56	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/27/18 10:56	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/27/18 10:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/27/18 10:56	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/27/18 10:56	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/27/18 10:56	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/27/18 10:56	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/27/18 10:56	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/27/18 10:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		11/27/18 10:56	1
Dibromofluoromethane (Surr)	95		80 - 122		11/27/18 10:56	1
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		11/27/18 10:56	1
Toluene-d8 (Surr)	96		80 - 120		11/27/18 10:56	1

Lab Sample ID: LCS 680-548964/3

Matrix: Water

Analysis Batch: 548964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	252		ug/L		101	70 - 135
Acrylonitrile	500	500		ug/L		100	80 - 123
Benzene	50.0	50.5		ug/L		101	80 - 120
Bromobenzene	50.0	55.6		ug/L		111	80 - 121
Bromochloromethane	50.0	52.6		ug/L		105	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCS 680-548964/3

Matrix: Water

Analysis Batch: 548964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	51.2		ug/L		102	80 - 120
Bromoform	50.0	54.2		ug/L		108	74 - 126
Bromomethane	50.0	39.0	E	ug/L		78	62 - 130
2-Butanone (MEK)	250	245		ug/L		98	80 - 131
Carbon disulfide	50.0	54.0		ug/L		108	80 - 120
Carbon tetrachloride	50.0	53.6		ug/L		107	76 - 123
Chlorobenzene	50.0	51.4		ug/L		103	80 - 120
Chloroethane	50.0	62.6		ug/L		125	66 - 135
Chloroform	50.0	49.3		ug/L		99	80 - 120
Chloromethane	50.0	53.6		ug/L		107	69 - 131
2-Chlorotoluene	50.0	50.1		ug/L		100	80 - 120
4-Chlorotoluene	50.0	51.6		ug/L		103	80 - 120
cis-1,2-Dichloroethene	50.0	48.5		ug/L		97	80 - 120
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	80 - 120
Dibromochloromethane	50.0	56.3		ug/L		113	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	48.5		ug/L		97	71 - 134
1,2-Dibromoethane	50.0	54.4		ug/L		109	80 - 120
Dibromomethane	50.0	54.7		ug/L		109	80 - 120
1,2-Dichlorobenzene	50.0	50.7		ug/L		101	80 - 120
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 120
1,4-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120
Dichlorodifluoromethane	50.0	55.9		ug/L		112	47 - 155
1,1-Dichloroethane	50.0	50.4		ug/L		101	80 - 120
1,2-Dichloroethane	50.0	54.2		ug/L		108	80 - 120
1,1-Dichloroethene	50.0	49.1		ug/L		98	76 - 120
1,2-Dichloropropane	50.0	50.2		ug/L		100	80 - 120
1,3-Dichloropropane	50.0	53.8		ug/L		108	80 - 120
2,2-Dichloropropane	50.0	54.1		ug/L		108	76 - 126
1,1-Dichloropropene	50.0	51.7		ug/L		103	80 - 120
Ethylbenzene	50.0	51.5		ug/L		103	80 - 120
Hexachlorobutadiene	50.0	51.4		ug/L		103	60 - 140
2-Hexanone	250	259		ug/L		104	74 - 127
Iodomethane	50.0	55.3		ug/L		111	52 - 142
Isopropylbenzene	50.0	51.2		ug/L		102	80 - 120
Methylene Chloride	50.0	50.3		ug/L		101	80 - 120
4-Methyl-2-pentanone	250	251		ug/L		101	76 - 124
Methyl tert-butyl ether	50.0	50.3		ug/L		101	80 - 120
m-Xylene & p-Xylene	50.0	51.5		ug/L		103	80 - 120
Naphthalene	50.0	46.7		ug/L		93	59 - 140
n-Butylbenzene	50.0	45.4		ug/L		91	80 - 120
N-Propylbenzene	50.0	51.2		ug/L		102	80 - 120
o-Xylene	50.0	50.6		ug/L		101	80 - 120
p-Isopropyltoluene	50.0	47.2		ug/L		94	80 - 120
sec-Butylbenzene	50.0	48.8		ug/L		98	80 - 120
Styrene	50.0	55.7		ug/L		111	80 - 120
tert-Butylbenzene	50.0	51.9		ug/L		104	80 - 121
1,1,1,2-Tetrachloroethane	50.0	51.4		ug/L		103	80 - 121
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/L		97	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCS 680-548964/3

Matrix: Water

Analysis Batch: 548964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethylene	50.0	61.7	*	ug/L		123	80 - 121
Toluene	50.0	51.8		ug/L		104	80 - 113
trans-1,4-Dichloro-2-butene	50.0	43.7		ug/L		87	68 - 125
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120
trans-1,3-Dichloropropene	50.0	53.0		ug/L		106	80 - 120
1,2,3-Trichlorobenzene	50.0	48.9		ug/L		98	61 - 141
1,2,4-Trichlorobenzene	50.0	50.8		ug/L		102	68 - 128
1,1,1-Trichloroethane	50.0	50.5		ug/L		101	80 - 120
1,1,2-Trichloroethane	50.0	50.4		ug/L		101	80 - 120
Trichloroethene	50.0	47.2		ug/L		94	80 - 120
Trichlorofluoromethane	50.0	55.3		ug/L		111	60 - 141
1,2,3-Trichloropropane	50.0	50.2		ug/L		100	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.6		ug/L		103	79 - 124
1,2,4-Trimethylbenzene	50.0	51.0		ug/L		102	80 - 120
1,3,5-Trimethylbenzene	50.0	51.9		ug/L		104	80 - 120
Vinyl acetate	100	112		ug/L		112	67 - 135
Vinyl chloride	50.0	53.5		ug/L		107	71 - 128
Xylenes, Total	100	102		ug/L		102	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	100		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 680-548964/4

Matrix: Water

Analysis Batch: 548964

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	260		ug/L		104	70 - 135	3	30
Acrylonitrile	500	506		ug/L		101	80 - 123	1	20
Benzene	50.0	50.6		ug/L		101	80 - 120	0	20
Bromobenzene	50.0	53.5		ug/L		107	80 - 121	4	20
Bromochloromethane	50.0	53.7		ug/L		107	80 - 120	2	20
Bromodichloromethane	50.0	51.2		ug/L		102	80 - 120	0	20
Bromoform	50.0	54.2		ug/L		108	74 - 126	0	20
Bromomethane	50.0	38.3	E	ug/L		77	62 - 130	2	20
2-Butanone (MEK)	250	250		ug/L		100	80 - 131	2	20
Carbon disulfide	50.0	52.9		ug/L		106	80 - 120	2	20
Carbon tetrachloride	50.0	53.3		ug/L		107	76 - 123	1	20
Chlorobenzene	50.0	50.7		ug/L		101	80 - 120	1	20
Chloroethane	50.0	59.1		ug/L		118	66 - 135	6	20
Chloroform	50.0	50.0		ug/L		100	80 - 120	2	20
Chloromethane	50.0	52.8		ug/L		106	69 - 131	1	30
2-Chlorotoluene	50.0	49.8		ug/L		100	80 - 120	1	20
4-Chlorotoluene	50.0	51.1		ug/L		102	80 - 120	1	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-548964/4

Matrix: Water

Analysis Batch: 548964

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
cis-1,2-Dichloroethene	50.0	48.3		ug/L		97	80 - 120	0	20
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	80 - 120	1	20
Dibromochloromethane	50.0	52.1		ug/L		104	80 - 121	8	20
1,2-Dibromo-3-Chloropropane	50.0	49.8		ug/L		100	71 - 134	3	20
1,2-Dibromoethane	50.0	51.7		ug/L		103	80 - 120	5	20
Dibromomethane	50.0	54.4		ug/L		109	80 - 120	1	20
1,2-Dichlorobenzene	50.0	50.5		ug/L		101	80 - 120	0	20
1,3-Dichlorobenzene	50.0	50.9		ug/L		102	80 - 120	1	20
1,4-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120	1	20
Dichlorodifluoromethane	50.0	51.0		ug/L		102	47 - 155	9	40
1,1-Dichloroethane	50.0	51.0		ug/L		102	80 - 120	1	20
1,2-Dichloroethane	50.0	54.5		ug/L		109	80 - 120	0	50
1,1-Dichloroethene	50.0	49.4		ug/L		99	76 - 120	1	20
1,2-Dichloropropane	50.0	49.7		ug/L		99	80 - 120	1	20
1,3-Dichloropropane	50.0	51.8		ug/L		104	80 - 120	4	20
2,2-Dichloropropane	50.0	55.2		ug/L		110	76 - 126	2	20
1,1-Dichloropropene	50.0	50.2		ug/L		100	80 - 120	3	20
Ethylbenzene	50.0	50.9		ug/L		102	80 - 120	1	20
Hexachlorobutadiene	50.0	47.4		ug/L		95	60 - 140	8	20
2-Hexanone	250	256		ug/L		102	74 - 127	1	20
Iodomethane	50.0	54.3		ug/L		109	52 - 142	2	30
Isopropylbenzene	50.0	50.4		ug/L		101	80 - 120	2	20
Methylene Chloride	50.0	49.4		ug/L		99	80 - 120	2	20
4-Methyl-2-pentanone	250	250		ug/L		100	76 - 124	1	20
Methyl tert-butyl ether	50.0	50.5		ug/L		101	80 - 120	0	20
m-Xylene & p-Xylene	50.0	50.8		ug/L		102	80 - 120	1	20
Naphthalene	50.0	48.4		ug/L		97	59 - 140	4	20
n-Butylbenzene	50.0	45.1		ug/L		90	80 - 120	1	20
N-Propylbenzene	50.0	50.1		ug/L		100	80 - 120	2	20
o-Xylene	50.0	50.1		ug/L		100	80 - 120	1	30
p-Isopropyltoluene	50.0	46.1		ug/L		92	80 - 120	2	20
sec-Butylbenzene	50.0	47.7		ug/L		95	80 - 120	2	20
Styrene	50.0	55.2		ug/L		110	80 - 120	1	20
tert-Butylbenzene	50.0	50.5		ug/L		101	80 - 121	3	20
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	49.2		ug/L		98	80 - 120	1	20
Tetrachloroethylene	50.0	55.4		ug/L		111	80 - 121	11	20
Toluene	50.0	51.0		ug/L		102	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	46.4		ug/L		93	68 - 125	6	30
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	52.8		ug/L		106	80 - 120	0	30
1,2,3-Trichlorobenzene	50.0	49.3		ug/L		99	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	50.1		ug/L		100	68 - 128	1	20
1,1,1-Trichloroethane	50.0	51.2		ug/L		102	80 - 120	1	20
1,1,2-Trichloroethane	50.0	50.9		ug/L		102	80 - 120	1	20
Trichloroethene	50.0	48.3		ug/L		97	80 - 120	2	20
Trichlorofluoromethane	50.0	55.2		ug/L		110	60 - 141	0	20
1,2,3-Trichloropropane	50.0	51.1		ug/L		102	80 - 123	2	30

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-548964/4

Matrix: Water

Analysis Batch: 548964

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.6		ug/L		101	79 - 124	2	20
1,2,4-Trimethylbenzene	50.0	50.1		ug/L		100	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	50.9		ug/L		102	80 - 120	2	20
Vinyl acetate	100	112		ug/L		112	67 - 135	0	20
Vinyl chloride	50.0	52.5		ug/L		105	71 - 128	2	20
Xylenes, Total	100	101		ug/L		101	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	99		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 680-549154/9

Matrix: Water

Analysis Batch: 549154

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/28/18 10:08	1
Acrylonitrile	10	U	20	10	ug/L			11/28/18 10:08	1
Benzene	0.43	U	1.0	0.43	ug/L			11/28/18 10:08	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/28/18 10:08	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/28/18 10:08	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/28/18 10:08	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/28/18 10:08	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/28/18 10:08	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/28/18 10:08	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/28/18 10:08	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/28/18 10:08	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/28/18 10:08	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/18 10:08	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/28/18 10:08	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/28/18 10:08	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/28/18 10:08	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/28/18 10:08	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/28/18 10:08	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/28/18 10:08	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/28/18 10:08	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/28/18 10:08	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/18 10:08	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/28/18 10:08	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/28/18 10:08	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/28/18 10:08	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/28/18 10:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/28/18 10:08	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: MB 680-549154/9

Matrix: Water

Analysis Batch: 549154

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/28/18 10:08	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/28/18 10:08	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/28/18 10:08	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/28/18 10:08	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/28/18 10:08	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/28/18 10:08	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/28/18 10:08	1
Iodomethane	5.0	U	10	5.0	ug/L			11/28/18 10:08	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/28/18 10:08	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/28/18 10:08	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/28/18 10:08	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/28/18 10:08	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 10:08	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/28/18 10:08	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/28/18 10:08	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/28/18 10:08	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/28/18 10:08	1
Styrene	0.27	U	1.0	0.27	ug/L			11/28/18 10:08	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/28/18 10:08	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 10:08	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/28/18 10:08	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/28/18 10:08	1
Toluene	0.48	U	1.0	0.48	ug/L			11/28/18 10:08	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/28/18 10:08	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/28/18 10:08	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/28/18 10:08	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 10:08	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/28/18 10:08	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/28/18 10:08	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/28/18 10:08	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/28/18 10:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/28/18 10:08	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 10:08	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/28/18 10:08	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/28/18 10:08	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/28/18 10:08	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/28/18 10:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		11/28/18 10:08	1
Dibromofluoromethane (Surr)	100		80 - 122		11/28/18 10:08	1
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		11/28/18 10:08	1
Toluene-d8 (Surr)	99		80 - 120		11/28/18 10:08	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Lab Sample ID: LCS 680-549154/3

Matrix: Water

Analysis Batch: 549154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	229		ug/L		91	70 - 135
Acrylonitrile	500	517		ug/L		103	80 - 123
Benzene	50.0	50.5		ug/L		101	80 - 120
Bromobenzene	50.0	50.0		ug/L		100	80 - 121
Bromochloromethane	50.0	49.1		ug/L		98	80 - 120
Bromodichloromethane	50.0	49.9		ug/L		100	80 - 120
Bromoform	50.0	53.3		ug/L		107	74 - 126
Bromomethane	50.0	48.5		ug/L		97	62 - 130
2-Butanone (MEK)	250	233		ug/L		93	80 - 131
Carbon disulfide	50.0	48.8		ug/L		98	80 - 120
Carbon tetrachloride	50.0	49.4		ug/L		99	76 - 123
Chlorobenzene	50.0	50.1		ug/L		100	80 - 120
Chloroethane	50.0	49.8		ug/L		100	66 - 135
Chloroform	50.0	48.9		ug/L		98	80 - 120
Chloromethane	50.0	48.7		ug/L		97	69 - 131
2-Chlorotoluene	50.0	50.4		ug/L		101	80 - 120
4-Chlorotoluene	50.0	50.8		ug/L		102	80 - 120
cis-1,2-Dichloroethene	50.0	48.9		ug/L		98	80 - 120
cis-1,3-Dichloropropene	50.0	52.1		ug/L		104	80 - 120
Dibromochloromethane	50.0	49.9		ug/L		100	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	57.0		ug/L		114	71 - 134
1,2-Dibromoethane	50.0	50.9		ug/L		102	80 - 120
Dibromomethane	50.0	48.8		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	50.7		ug/L		101	80 - 120
1,3-Dichlorobenzene	50.0	49.9		ug/L		100	80 - 120
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120
Dichlorodifluoromethane	50.0	43.1		ug/L		86	47 - 155
1,1-Dichloroethane	50.0	49.4		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	47.5		ug/L		95	80 - 120
1,1-Dichloroethene	50.0	48.8		ug/L		98	76 - 120
1,2-Dichloropropane	50.0	51.6		ug/L		103	80 - 120
1,3-Dichloropropane	50.0	50.5		ug/L		101	80 - 120
2,2-Dichloropropane	50.0	55.2		ug/L		110	76 - 126
1,1-Dichloropropene	50.0	52.0		ug/L		104	80 - 120
Ethylbenzene	50.0	50.8		ug/L		102	80 - 120
Hexachlorobutadiene	50.0	54.8		ug/L		110	60 - 140
2-Hexanone	250	260		ug/L		104	74 - 127
Iodomethane	50.0	49.4		ug/L		99	52 - 142
Isopropylbenzene	50.0	51.0		ug/L		102	80 - 120
Methylene Chloride	50.0	52.9		ug/L		106	80 - 120
4-Methyl-2-pentanone	250	257		ug/L		103	76 - 124
Methyl tert-butyl ether	50.0	50.1		ug/L		100	80 - 120
m-Xylene & p-Xylene	50.0	51.0		ug/L		102	80 - 120
Naphthalene	50.0	61.8		ug/L		124	59 - 140
n-Butylbenzene	50.0	51.6		ug/L		103	80 - 120
N-Propylbenzene	50.0	51.2		ug/L		102	80 - 120
o-Xylene	50.0	51.3		ug/L		103	80 - 120
p-Isopropyltoluene	50.0	50.0		ug/L		100	80 - 120
sec-Butylbenzene	50.0	50.9		ug/L		102	80 - 120
Styrene	50.0	53.2		ug/L		106	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCS 680-549154/3

Matrix: Water

Analysis Batch: 549154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	50.0	50.2		ug/L		100	80 - 121
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/L		101	80 - 121
1,1,2,2-Tetrachloroethane	50.0	54.2		ug/L		108	80 - 120
Tetrachloroethylene	50.0	48.4		ug/L		97	80 - 121
Toluene	50.0	49.4		ug/L		99	80 - 113
trans-1,4-Dichloro-2-butene	50.0	48.1		ug/L		96	68 - 125
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	80 - 120
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	80 - 120
1,2,3-Trichlorobenzene	50.0	62.1		ug/L		124	61 - 141
1,2,4-Trichlorobenzene	50.0	56.6		ug/L		113	68 - 128
1,1,1-Trichloroethane	50.0	48.9		ug/L		98	80 - 120
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	80 - 120
Trichloroethene	50.0	49.2		ug/L		98	80 - 120
Trichlorofluoromethane	50.0	44.7		ug/L		89	60 - 141
1,2,3-Trichloropropane	50.0	52.6		ug/L		105	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/L		102	79 - 124
1,2,4-Trimethylbenzene	50.0	51.4		ug/L		103	80 - 120
1,3,5-Trimethylbenzene	50.0	51.5		ug/L		103	80 - 120
Vinyl acetate	100	125		ug/L		125	67 - 135
Vinyl chloride	50.0	49.7		ug/L		99	71 - 128
Xylenes, Total	100	102		ug/L		102	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	97		80 - 122
1,2-Dichloroethane-d4 (Surr)	92		73 - 131
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: LCSD 680-549154/4

Matrix: Water

Analysis Batch: 549154

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	219		ug/L		87	70 - 135	4	30
Acrylonitrile	500	495		ug/L		99	80 - 123	4	20
Benzene	50.0	49.8		ug/L		100	80 - 120	1	20
Bromobenzene	50.0	49.6		ug/L		99	80 - 121	1	20
Bromochloromethane	50.0	47.0		ug/L		94	80 - 120	4	20
Bromodichloromethane	50.0	48.2		ug/L		96	80 - 120	4	20
Bromoform	50.0	51.2		ug/L		102	74 - 126	4	20
Bromomethane	50.0	48.7		ug/L		97	62 - 130	0	20
2-Butanone (MEK)	250	225		ug/L		90	80 - 131	4	20
Carbon disulfide	50.0	48.0		ug/L		96	80 - 120	2	20
Carbon tetrachloride	50.0	49.2		ug/L		98	76 - 123	0	20
Chlorobenzene	50.0	49.0		ug/L		98	80 - 120	2	20
Chloroethane	50.0	48.6		ug/L		97	66 - 135	2	20
Chloroform	50.0	47.8		ug/L		96	80 - 120	2	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-549154/4

Matrix: Water

Analysis Batch: 549154

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
Chloromethane	50.0	47.6		ug/L		95	69 - 131	2	30
2-Chlorotoluene	50.0	49.6		ug/L		99	80 - 120	2	20
4-Chlorotoluene	50.0	50.4		ug/L		101	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	48.2		ug/L		96	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	80 - 120	4	20
Dibromochloromethane	50.0	48.5		ug/L		97	80 - 121	3	20
1,2-Dibromo-3-Chloropropane	50.0	56.1		ug/L		112	71 - 134	2	20
1,2-Dibromoethane	50.0	48.6		ug/L		97	80 - 120	5	20
Dibromomethane	50.0	47.2		ug/L		94	80 - 120	3	20
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 120	0	20
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 120	0	20
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120	1	20
Dichlorodifluoromethane	50.0	42.5		ug/L		85	47 - 155	1	40
1,1-Dichloroethane	50.0	48.2		ug/L		96	80 - 120	3	20
1,2-Dichloroethane	50.0	45.9		ug/L		92	80 - 120	3	50
1,1-Dichloroethene	50.0	48.8		ug/L		98	76 - 120	0	20
1,2-Dichloropropane	50.0	50.8		ug/L		102	80 - 120	2	20
1,3-Dichloropropane	50.0	48.4		ug/L		97	80 - 120	4	20
2,2-Dichloropropane	50.0	54.5		ug/L		109	76 - 126	1	20
1,1-Dichloropropene	50.0	51.8		ug/L		104	80 - 120	0	20
Ethylbenzene	50.0	50.5		ug/L		101	80 - 120	1	20
Hexachlorobutadiene	50.0	56.4		ug/L		113	60 - 140	3	20
2-Hexanone	250	248		ug/L		99	74 - 127	5	20
Iodomethane	50.0	48.4		ug/L		97	52 - 142	2	30
Isopropylbenzene	50.0	50.5		ug/L		101	80 - 120	1	20
Methylene Chloride	50.0	50.8		ug/L		102	80 - 120	4	20
4-Methyl-2-pentanone	250	250		ug/L		100	76 - 124	3	20
Methyl tert-butyl ether	50.0	49.7		ug/L		99	80 - 120	1	20
m-Xylene & p-Xylene	50.0	49.8		ug/L		100	80 - 120	2	20
Naphthalene	50.0	62.8		ug/L		126	59 - 140	2	20
n-Butylbenzene	50.0	52.8		ug/L		106	80 - 120	2	20
N-Propylbenzene	50.0	51.2		ug/L		102	80 - 120	0	20
o-Xylene	50.0	50.5		ug/L		101	80 - 120	2	30
p-Isopropyltoluene	50.0	50.6		ug/L		101	80 - 120	1	20
sec-Butylbenzene	50.0	50.9		ug/L		102	80 - 120	0	20
Styrene	50.0	52.2		ug/L		104	80 - 120	2	20
tert-Butylbenzene	50.0	49.6		ug/L		99	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/L		100	80 - 121	0	20
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/L		105	80 - 120	3	20
Tetrachloroethylene	50.0	48.0		ug/L		96	80 - 121	1	20
Toluene	50.0	48.7		ug/L		97	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	47.8		ug/L		96	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	80 - 120	4	30
1,2,3-Trichlorobenzene	50.0	64.5		ug/L		129	61 - 141	4	20
1,2,4-Trichlorobenzene	50.0	56.9		ug/L		114	68 - 128	1	20
1,1,1-Trichloroethane	50.0	48.6		ug/L		97	80 - 120	1	20
1,1,2-Trichloroethane	50.0	48.8		ug/L		98	80 - 120	4	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-549154/4

Matrix: Water

Analysis Batch: 549154

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
Trichloroethene	50.0	49.1		ug/L		98	80 - 120	0	20
Trichlorofluoromethane	50.0	44.5		ug/L		89	60 - 141	0	20
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	80 - 123	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.9		ug/L		104	79 - 124	1	20
1,2,4-Trimethylbenzene	50.0	50.7		ug/L		101	80 - 120	1	20
1,3,5-Trimethylbenzene	50.0	50.9		ug/L		102	80 - 120	1	20
Vinyl acetate	100	124		ug/L		124	67 - 135	1	20
Vinyl chloride	50.0	49.0		ug/L		98	71 - 128	1	20
Xylenes, Total	100	100		ug/L		100	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	95		80 - 122
1,2-Dichloroethane-d4 (Surr)	90		73 - 131
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: 680-160798-6 MS

Matrix: Water

Analysis Batch: 549154

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	7.0	U F1	250	231	H	ug/L		92	60 - 154
Acrylonitrile	10	U F1	500	497	H	ug/L		99	72 - 132
Benzene	1.2	F1	50.0	53.2	H	ug/L		104	73 - 131
Bromobenzene	0.50	U F1	50.0	49.4	H	ug/L		99	79 - 124
Bromochloromethane	0.45	U F1	50.0	49.4	H	ug/L		99	77 - 122
Bromodichloromethane	0.44	U F1	50.0	50.1	H	ug/L		100	77 - 129
Bromoform	0.43	U F1	50.0	49.5	H	ug/L		99	69 - 135
Bromomethane	2.5	U F1	50.0	51.2	H	ug/L		102	20 - 180
2-Butanone (MEK)	3.4	U F1	250	247	H	ug/L		99	75 - 133
Carbon disulfide	1.0	U F1	50.0	51.8	H	ug/L		104	73 - 127
Carbon tetrachloride	0.33	U F1	50.0	53.6	H	ug/L		107	75 - 130
Chlorobenzene	55	F1	50.0	103	H	ug/L		96	80 - 120
Chloroethane	2.5	U F1	50.0	53.7	H	ug/L		107	50 - 151
Chloroform	0.50	U F1	50.0	50.5	H	ug/L		101	79 - 122
Chloromethane	0.40	U F1	50.0	51.5	H	ug/L		103	63 - 126
2-Chlorotoluene	0.27	U F1	50.0	50.8	H	ug/L		102	77 - 121
4-Chlorotoluene	0.45	U F1	50.0	50.3	H	ug/L		101	80 - 120
cis-1,2-Dichloroethene	0.85	J F1	50.0	51.5	H	ug/L		101	80 - 122
cis-1,3-Dichloropropene	0.40	U F1	50.0	50.2	H	ug/L		100	80 - 133
Dibromochloromethane	0.32	U F1	50.0	47.9	H	ug/L		96	71 - 136
1,2-Dibromo-3-Chloropropane	1.1	U F1	50.0	53.6	H	ug/L		107	59 - 141
1,2-Dibromoethane	0.44	U F1	50.0	49.3	H	ug/L		99	77 - 131
Dibromomethane	0.35	U F1	50.0	48.7	H	ug/L		97	80 - 122
1,2-Dichlorobenzene	0.37	U F1	50.0	50.8	H	ug/L		102	80 - 120
1,3-Dichlorobenzene	0.43	U F1	50.0	50.8	H	ug/L		102	80 - 120
1,4-Dichlorobenzene	0.79	J F1	50.0	50.6	H	ug/L		100	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: 680-160798-6 MS

Matrix: Water

Analysis Batch: 549154

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.60	U F1	50.0	49.2	H	ug/L		98	51 - 140
1,1-Dichloroethane	0.38	U F1	50.0	51.4	H	ug/L		103	80 - 120
1,2-Dichloroethane	6.8	F1	50.0	55.6	H	ug/L		98	75 - 130
1,1-Dichloroethene	0.36	U F1	50.0	52.4	H	ug/L		105	74 - 125
1,2-Dichloropropane	0.67	U F1	50.0	51.5	H	ug/L		103	80 - 123
1,3-Dichloropropane	0.34	U F1	50.0	49.1	H	ug/L		98	78 - 127
2,2-Dichloropropane	0.37	U F1	50.0	52.6	H	ug/L		105	72 - 133
1,1-Dichloropropene	0.34	U F1	50.0	55.6	H	ug/L		111	78 - 127
Ethylbenzene	0.33	U F1	50.0	52.5	H	ug/L		105	80 - 120
Hexachlorobutadiene	2.5	U F1	50.0	52.5	H	ug/L		105	77 - 129
2-Hexanone	2.0	U F1	250	255	H	ug/L		102	70 - 141
Iodomethane	5.0	U F1	50.0	50.1	H	ug/L		100	15 - 162
Isopropylbenzene	0.35	U F1	50.0	52.3	H	ug/L		105	80 - 120
Methylene Chloride	2.5	U F1	50.0	52.2	H	ug/L		104	76 - 129
4-Methyl-2-pentanone	2.1	U F1	250	253	H	ug/L		101	75 - 135
Methyl tert-butyl ether	0.30	U F1	50.0	49.4	H	ug/L		99	74 - 135
m-Xylene & p-Xylene	0.35	U F1	50.0	50.9	H	ug/L		102	80 - 120
Naphthalene	2.5	U F1	50.0	65.3	H	ug/L		131	69 - 148
n-Butylbenzene	0.47	U F1	50.0	53.6	H	ug/L		107	78 - 124
N-Propylbenzene	0.38	U F1	50.0	51.7	H	ug/L		103	80 - 120
o-Xylene	0.23	U F1	50.0	51.5	H	ug/L		103	80 - 120
p-Isopropyltoluene	0.48	U F1	50.0	51.8	H	ug/L		104	80 - 120
sec-Butylbenzene	0.42	U F1	50.0	51.7	H	ug/L		103	76 - 125
Styrene	0.27	U F1	50.0	52.5	H	ug/L		105	80 - 122
tert-Butylbenzene	0.45	U F1	50.0	51.1	H	ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	0.37	U F1	50.0	50.9	H	ug/L		102	80 - 120
1,1,1,2,2-Tetrachloroethane	0.62	U F1	50.0	51.8	H	ug/L		104	72 - 128
Tetrachloroethylene	0.74	U F1	50.0	50.6	H	ug/L		101	77 - 123
Toluene	0.69	J F1	50.0	51.3	H	ug/L		101	80 - 122
trans-1,4-Dichloro-2-butene	0.51	U F1	50.0	46.8	H	ug/L		94	55 - 147
trans-1,2-Dichloroethene	2.1	F1	50.0	56.8	H	ug/L		109	78 - 123
trans-1,3-Dichloropropene	0.42	U F1	50.0	47.4	H	ug/L		95	74 - 140
1,2,3-Trichlorobenzene	2.5	U F1	50.0	57.5	H	ug/L		115	61 - 151
1,2,4-Trichlorobenzene	2.5	U F1	50.0	53.8	H	ug/L		108	77 - 131
1,1,1-Trichloroethane	0.37	U F1	50.0	53.1	H	ug/L		106	74 - 128
1,1,2-Trichloroethane	0.33	U F1	50.0	48.9	H	ug/L		98	79 - 125
Trichloroethene	0.48	U F1	50.0	52.0	H	ug/L		104	80 - 123
Trichlorofluoromethane	0.42	U F1	50.0	50.1	H	ug/L		100	58 - 145
1,2,3-Trichloropropane	0.39	U F1	50.0	50.4	H	ug/L		101	70 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U F1	50.0	55.1	H	ug/L		110	65 - 131
1,2,4-Trimethylbenzene	0.47	U F1	50.0	50.7	H	ug/L		101	80 - 124
1,3,5-Trimethylbenzene	0.31	U F1	50.0	51.4	H	ug/L		103	80 - 120
Vinyl acetate	0.81	U F1	100	115	H	ug/L		115	15 - 190
Vinyl chloride	0.50	U F1	50.0	53.4	H	ug/L		107	68 - 132
Xylenes, Total	0.23	U F1	100	102	H	ug/L		102	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: 680-160798-6 MS

Matrix: Water

Analysis Batch: 549154

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	98		80 - 122
1,2-Dichloroethane-d4 (Surr)	96		73 - 131
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: 680-160798-6 MSD

Matrix: Water

Analysis Batch: 549154

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	7.0	U F1	250	235	H	ug/L		94	60 - 154	2	30
Acrylonitrile	10	U F1	500	499	H	ug/L		100	72 - 132	0	20
Benzene	1.2	F1	50.0	53.2	H	ug/L		104	73 - 131	0	20
Bromobenzene	0.50	U F1	50.0	50.0	H	ug/L		100	79 - 124	1	20
Bromochloromethane	0.45	U F1	50.0	50.3	H	ug/L		101	77 - 122	2	20
Bromodichloromethane	0.44	U F1	50.0	49.7	H	ug/L		99	77 - 129	1	20
Bromoform	0.43	U F1	50.0	50.5	H	ug/L		101	69 - 135	2	20
Bromomethane	2.5	U F1	50.0	52.4	H	ug/L		105	20 - 180	2	20
2-Butanone (MEK)	3.4	U F1	250	229	H	ug/L		92	75 - 133	8	20
Carbon disulfide	1.0	U F1	50.0	52.4	H	ug/L		105	73 - 127	1	20
Carbon tetrachloride	0.33	U F1	50.0	52.8	H	ug/L		106	75 - 130	1	20
Chlorobenzene	55	F1	50.0	104	H	ug/L		99	80 - 120	1	20
Chloroethane	2.5	U F1	50.0	54.6	H	ug/L		109	50 - 151	2	20
Chloroform	0.50	U F1	50.0	51.5	H	ug/L		103	79 - 122	2	20
Chloromethane	0.40	U F1	50.0	51.2	H	ug/L		102	63 - 126	0	30
2-Chlorotoluene	0.27	U F1	50.0	51.2	H	ug/L		102	77 - 121	1	20
4-Chlorotoluene	0.45	U F1	50.0	51.3	H	ug/L		103	80 - 120	2	20
cis-1,2-Dichloroethene	0.85	J F1	50.0	52.3	H	ug/L		103	80 - 122	2	20
cis-1,3-Dichloropropene	0.40	U F1	50.0	50.2	H	ug/L		100	80 - 133	0	20
Dibromochloromethane	0.32	U F1	50.0	49.3	H	ug/L		99	71 - 136	3	20
1,2-Dibromo-3-Chloropropane	1.1	U F1	50.0	58.3	H	ug/L		117	59 - 141	8	20
1,2-Dibromoethane	0.44	U F1	50.0	50.3	H	ug/L		101	77 - 131	2	20
Dibromomethane	0.35	U F1	50.0	48.5	H	ug/L		97	80 - 122	0	20
1,2-Dichlorobenzene	0.37	U F1	50.0	51.6	H	ug/L		103	80 - 120	2	20
1,3-Dichlorobenzene	0.43	U F1	50.0	51.4	H	ug/L		103	80 - 120	1	20
1,4-Dichlorobenzene	0.79	J F1	50.0	51.2	H	ug/L		101	80 - 120	1	20
Dichlorodifluoromethane	0.60	U F1	50.0	46.2	H	ug/L		92	51 - 140	6	40
1,1-Dichloroethane	0.38	U F1	50.0	52.4	H	ug/L		105	80 - 120	2	20
1,2-Dichloroethane	6.8	F1	50.0	55.6	H	ug/L		97	75 - 130	0	50
1,1-Dichloroethene	0.36	U F1	50.0	53.1	H	ug/L		106	74 - 125	1	20
1,2-Dichloropropane	0.67	U F1	50.0	51.8	H	ug/L		104	80 - 123	0	20
1,3-Dichloropropane	0.34	U F1	50.0	49.1	H	ug/L		98	78 - 127	0	20
2,2-Dichloropropane	0.37	U F1	50.0	51.5	H	ug/L		103	72 - 133	2	20
1,1-Dichloropropene	0.34	U F1	50.0	54.7	H	ug/L		109	78 - 127	2	20
Ethylbenzene	0.33	U F1	50.0	52.4	H	ug/L		105	80 - 120	0	20
Hexachlorobutadiene	2.5	U F1	50.0	55.1	H	ug/L		110	77 - 129	5	20
2-Hexanone	2.0	U F1	250	262	H	ug/L		105	70 - 141	3	20
Iodomethane	5.0	U F1	50.0	51.7	H	ug/L		103	15 - 162	3	30

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: 680-160798-6 MSD

Matrix: Water

Analysis Batch: 549154

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	0.35	U F1	50.0	52.4	H	ug/L		105	80 - 120	0	20
Methylene Chloride	2.5	U F1	50.0	52.7	H	ug/L		105	76 - 129	1	20
4-Methyl-2-pentanone	2.1	U F1	250	253	H	ug/L		101	75 - 135	0	20
Methyl tert-butyl ether	0.30	U F1	50.0	45.4	H	ug/L		91	74 - 135	8	20
m-Xylene & p-Xylene	0.35	U F1	50.0	51.7	H	ug/L		103	80 - 120	1	20
Naphthalene	2.5	U F1	50.0	70.5	H	ug/L		141	69 - 148	8	20
n-Butylbenzene	0.47	U F1	50.0	54.6	H	ug/L		109	78 - 124	2	20
N-Propylbenzene	0.38	U F1	50.0	52.0	H	ug/L		104	80 - 120	1	20
o-Xylene	0.23	U F1	50.0	51.8	H	ug/L		104	80 - 120	0	30
p-Isopropyltoluene	0.48	U F1	50.0	52.4	H	ug/L		105	80 - 120	1	20
sec-Butylbenzene	0.42	U F1	50.0	52.5	H	ug/L		105	76 - 125	2	20
Styrene	0.27	U F1	50.0	53.3	H	ug/L		107	80 - 122	1	20
tert-Butylbenzene	0.45	U F1	50.0	51.7	H	ug/L		103	80 - 120	1	20
1,1,1,2-Tetrachloroethane	0.37	U F1	50.0	51.4	H	ug/L		103	80 - 120	1	20
1,1,2,2-Tetrachloroethane	0.62	U F1	50.0	52.9	H	ug/L		106	72 - 128	2	20
Tetrachloroethylene	0.74	U F1	50.0	51.2	H	ug/L		102	77 - 123	1	20
Toluene	0.69	J F1	50.0	51.8	H	ug/L		102	80 - 122	1	20
trans-1,4-Dichloro-2-butene	0.51	U F1	50.0	47.5	H	ug/L		95	55 - 147	2	30
trans-1,2-Dichloroethene	2.1	F1	50.0	56.8	H	ug/L		109	78 - 123	0	20
trans-1,3-Dichloropropene	0.42	U F1	50.0	48.1	H	ug/L		96	74 - 140	1	30
1,2,3-Trichlorobenzene	2.5	U F1	50.0	65.5	H	ug/L		131	61 - 151	13	20
1,2,4-Trichlorobenzene	2.5	U F1	50.0	57.7	H	ug/L		115	77 - 131	7	20
1,1,1-Trichloroethane	0.37	U F1	50.0	52.1	H	ug/L		104	74 - 128	2	20
1,1,2-Trichloroethane	0.33	U F1	50.0	49.9	H	ug/L		100	79 - 125	2	20
Trichloroethene	0.48	U F1	50.0	52.1	H	ug/L		104	80 - 123	0	20
Trichlorofluoromethane	0.42	U F1	50.0	50.3	H	ug/L		101	58 - 145	0	20
1,2,3-Trichloropropane	0.39	U F1	50.0	51.9	H	ug/L		104	70 - 132	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U F1	50.0	51.8	H	ug/L		104	65 - 131	6	20
1,2,4-Trimethylbenzene	0.47	U F1	50.0	52.3	H	ug/L		105	80 - 124	3	20
1,3,5-Trimethylbenzene	0.31	U F1	50.0	52.5	H	ug/L		105	80 - 120	2	20
Vinyl acetate	0.81	U F1	100	107	H	ug/L		107	15 - 190	7	20
Vinyl chloride	0.50	U F1	50.0	52.5	H	ug/L		105	68 - 132	2	20
Xylenes, Total	0.23	U F1	100	104	H	ug/L		104	80 - 120	1	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		80 - 120								
Dibromofluoromethane (Surr)	100		80 - 122								
1,2-Dichloroethane-d4 (Surr)	95		73 - 131								
Toluene-d8 (Surr)	97		80 - 120								

Lab Sample ID: MB 680-549156/10

Matrix: Water

Analysis Batch: 549156

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/28/18 12:10	1
Acrylonitrile	10	U	20	10	ug/L			11/28/18 12:10	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: MB 680-549156/10

Matrix: Water

Analysis Batch: 549156

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.43	U	1.0	0.43	ug/L			11/28/18 12:10	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/28/18 12:10	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/28/18 12:10	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/28/18 12:10	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/28/18 12:10	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/28/18 12:10	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/28/18 12:10	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/28/18 12:10	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/28/18 12:10	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/28/18 12:10	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/28/18 12:10	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/28/18 12:10	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/18 12:10	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/28/18 12:10	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/28/18 12:10	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/28/18 12:10	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/28/18 12:10	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/28/18 12:10	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/28/18 12:10	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/28/18 12:10	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/28/18 12:10	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/18 12:10	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/28/18 12:10	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/28/18 12:10	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/28/18 12:10	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/28/18 12:10	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/28/18 12:10	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/28/18 12:10	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/28/18 12:10	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/28/18 12:10	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/28/18 12:10	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/28/18 12:10	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/28/18 12:10	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/28/18 12:10	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/28/18 12:10	1
Iodomethane	5.0	U	10	5.0	ug/L			11/28/18 12:10	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/28/18 12:10	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/28/18 12:10	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/28/18 12:10	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/28/18 12:10	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/28/18 12:10	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/28/18 12:10	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 12:10	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/28/18 12:10	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/28/18 12:10	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/28/18 12:10	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/28/18 12:10	1
Styrene	0.27	U	1.0	0.27	ug/L			11/28/18 12:10	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: MB 680-549156/10

Matrix: Water

Analysis Batch: 549156

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/28/18 12:10	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 12:10	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/28/18 12:10	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/28/18 12:10	1
Toluene	0.48	U	1.0	0.48	ug/L			11/28/18 12:10	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/28/18 12:10	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/28/18 12:10	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/28/18 12:10	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 12:10	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 12:10	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 12:10	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/28/18 12:10	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/28/18 12:10	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/28/18 12:10	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/28/18 12:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/28/18 12:10	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 12:10	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/28/18 12:10	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/28/18 12:10	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/28/18 12:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/28/18 12:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		80 - 120		11/28/18 12:10	1
Dibromofluoromethane (Surr)	97		80 - 122		11/28/18 12:10	1
1,2-Dichloroethane-d4 (Surr)	89		73 - 131		11/28/18 12:10	1
Toluene-d8 (Surr)	104		80 - 120		11/28/18 12:10	1

Lab Sample ID: LCS 680-549156/5

Matrix: Water

Analysis Batch: 549156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	240		ug/L		96	70 - 135
Acrylonitrile	500	414		ug/L		83	80 - 123
Benzene	50.0	46.6		ug/L		93	80 - 120
Bromobenzene	50.0	50.3		ug/L		101	80 - 121
Bromochloromethane	50.0	46.0		ug/L		92	80 - 120
Bromodichloromethane	50.0	44.5		ug/L		89	80 - 120
Bromoform	50.0	40.3		ug/L		81	74 - 126
Bromomethane	50.0	58.9		ug/L		118	62 - 130
2-Butanone (MEK)	250	219		ug/L		88	80 - 131
Carbon disulfide	50.0	47.5		ug/L		95	80 - 120
Carbon tetrachloride	50.0	47.9		ug/L		96	76 - 123
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120
Chloroethane	50.0	46.2		ug/L		92	66 - 135
Chloroform	50.0	45.9		ug/L		92	80 - 120
Chloromethane	50.0	48.5		ug/L		97	69 - 131

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCS 680-549156/5

Matrix: Water

Analysis Batch: 549156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	50.0	51.8		ug/L		104	80 - 120
4-Chlorotoluene	50.0	50.6		ug/L		101	80 - 120
cis-1,2-Dichloroethene	50.0	43.3		ug/L		87	80 - 120
cis-1,3-Dichloropropene	50.0	44.0		ug/L		88	80 - 120
Dibromochloromethane	50.0	45.4		ug/L		91	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	46.5		ug/L		93	71 - 134
1,2-Dibromoethane	50.0	50.1		ug/L		100	80 - 120
Dibromomethane	50.0	48.0		ug/L		96	80 - 120
1,2-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120
1,3-Dichlorobenzene	50.0	51.6		ug/L		103	80 - 120
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 120
Dichlorodifluoromethane	50.0	59.7		ug/L		119	47 - 155
1,1-Dichloroethane	50.0	43.2		ug/L		86	80 - 120
1,2-Dichloroethane	50.0	46.0		ug/L		92	80 - 120
1,1-Dichloroethene	50.0	49.7		ug/L		99	76 - 120
1,2-Dichloropropane	50.0	44.0		ug/L		88	80 - 120
1,3-Dichloropropane	50.0	48.2		ug/L		96	80 - 120
2,2-Dichloropropane	50.0	50.4		ug/L		101	76 - 126
1,1-Dichloropropene	50.0	49.4		ug/L		99	80 - 120
Ethylbenzene	50.0	52.4		ug/L		105	80 - 120
Hexachlorobutadiene	50.0	43.7		ug/L		87	60 - 140
2-Hexanone	250	230		ug/L		92	74 - 127
Iodomethane	50.0	48.8		ug/L		98	52 - 142
Isopropylbenzene	50.0	52.9		ug/L		106	80 - 120
Methylene Chloride	50.0	47.7		ug/L		95	80 - 120
4-Methyl-2-pentanone	250	236		ug/L		94	76 - 124
Methyl tert-butyl ether	50.0	44.1		ug/L		88	80 - 120
m-Xylene & p-Xylene	50.0	51.3		ug/L		103	80 - 120
Naphthalene	50.0	51.8		ug/L		104	59 - 140
n-Butylbenzene	50.0	49.9		ug/L		100	80 - 120
N-Propylbenzene	50.0	53.1		ug/L		106	80 - 120
o-Xylene	50.0	50.3		ug/L		101	80 - 120
p-Isopropyltoluene	50.0	49.3		ug/L		99	80 - 120
sec-Butylbenzene	50.0	53.0		ug/L		106	80 - 120
Styrene	50.0	52.8		ug/L		106	80 - 120
tert-Butylbenzene	50.0	51.5		ug/L		103	80 - 121
1,1,1,2-Tetrachloroethane	50.0	54.4		ug/L		109	80 - 121
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/L		104	80 - 120
Tetrachloroethylene	50.0	53.5		ug/L		107	80 - 121
Toluene	50.0	47.3		ug/L		95	80 - 113
trans-1,4-Dichloro-2-butene	50.0	50.2		ug/L		100	68 - 125
trans-1,2-Dichloroethene	50.0	46.6		ug/L		93	80 - 120
trans-1,3-Dichloropropene	50.0	46.7		ug/L		93	80 - 120
1,2,3-Trichlorobenzene	50.0	44.8		ug/L		90	61 - 141
1,2,4-Trichlorobenzene	50.0	44.9		ug/L		90	68 - 128
1,1,1-Trichloroethane	50.0	48.7		ug/L		97	80 - 120
1,1,2-Trichloroethane	50.0	46.7		ug/L		93	80 - 120
Trichloroethene	50.0	48.6		ug/L		97	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCS 680-549156/5

Matrix: Water

Analysis Batch: 549156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	55.4		ug/L		111	60 - 141
1,2,3-Trichloropropane	50.0	56.1		ug/L		112	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.3		ug/L		109	79 - 124
1,2,4-Trimethylbenzene	50.0	49.5		ug/L		99	80 - 120
1,3,5-Trimethylbenzene	50.0	50.3		ug/L		101	80 - 120
Vinyl acetate	100	101		ug/L		101	67 - 135
Vinyl chloride	50.0	50.3		ug/L		101	71 - 128
Xylenes, Total	100	102		ug/L		102	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	95		80 - 122
1,2-Dichloroethane-d4 (Surr)	89		73 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 680-549156/6

Matrix: Water

Analysis Batch: 549156

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	270		ug/L		108	70 - 135	12	30
Acrylonitrile	500	458		ug/L		92	80 - 123	10	20
Benzene	50.0	49.2		ug/L		98	80 - 120	5	20
Bromobenzene	50.0	55.1		ug/L		110	80 - 121	9	20
Bromochloromethane	50.0	49.2		ug/L		98	80 - 120	7	20
Bromodichloromethane	50.0	47.3		ug/L		95	80 - 120	6	20
Bromoform	50.0	44.2		ug/L		88	74 - 126	9	20
Bromomethane	50.0	64.5		ug/L		129	62 - 130	9	20
2-Butanone (MEK)	250	243		ug/L		97	80 - 131	10	20
Carbon disulfide	50.0	49.6		ug/L		99	80 - 120	4	20
Carbon tetrachloride	50.0	50.7		ug/L		101	76 - 123	6	20
Chlorobenzene	50.0	54.8		ug/L		110	80 - 120	8	20
Chloroethane	50.0	48.3		ug/L		97	66 - 135	4	20
Chloroform	50.0	49.4		ug/L		99	80 - 120	7	20
Chloromethane	50.0	50.5		ug/L		101	69 - 131	4	30
2-Chlorotoluene	50.0	55.9		ug/L		112	80 - 120	8	20
4-Chlorotoluene	50.0	54.7		ug/L		109	80 - 120	8	20
cis-1,2-Dichloroethene	50.0	46.0		ug/L		92	80 - 120	6	20
cis-1,3-Dichloropropene	50.0	47.7		ug/L		95	80 - 120	8	20
Dibromochloromethane	50.0	49.8		ug/L		100	80 - 121	9	20
1,2-Dibromo-3-Chloropropane	50.0	51.3		ug/L		103	71 - 134	10	20
1,2-Dibromoethane	50.0	54.7		ug/L		109	80 - 120	9	20
Dibromomethane	50.0	51.4		ug/L		103	80 - 120	7	20
1,2-Dichlorobenzene	50.0	53.7		ug/L		107	80 - 120	8	20
1,3-Dichlorobenzene	50.0	55.7		ug/L		111	80 - 120	8	20
1,4-Dichlorobenzene	50.0	53.7		ug/L		107	80 - 120	8	20
Dichlorodifluoromethane	50.0	60.1		ug/L		120	47 - 155	1	40

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-549156/6

Matrix: Water

Analysis Batch: 549156

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	48.3		ug/L		97	80 - 120	11	20
1,2-Dichloroethane	50.0	48.9		ug/L		98	80 - 120	6	50
1,1-Dichloroethene	50.0	54.7		ug/L		109	76 - 120	10	20
1,2-Dichloropropane	50.0	46.6		ug/L		93	80 - 120	6	20
1,3-Dichloropropane	50.0	51.5		ug/L		103	80 - 120	7	20
2,2-Dichloropropane	50.0	52.5		ug/L		105	76 - 126	4	20
1,1-Dichloropropene	50.0	51.4		ug/L		103	80 - 120	4	20
Ethylbenzene	50.0	55.8		ug/L		112	80 - 120	6	20
Hexachlorobutadiene	50.0	46.8		ug/L		94	60 - 140	7	20
2-Hexanone	250	259		ug/L		103	74 - 127	12	20
Iodomethane	50.0	51.7		ug/L		103	52 - 142	6	30
Isopropylbenzene	50.0	56.8		ug/L		114	80 - 120	7	20
Methylene Chloride	50.0	50.5		ug/L		101	80 - 120	6	20
4-Methyl-2-pentanone	250	261		ug/L		104	76 - 124	10	20
Methyl tert-butyl ether	50.0	50.5		ug/L		101	80 - 120	13	20
m-Xylene & p-Xylene	50.0	55.0		ug/L		110	80 - 120	7	20
Naphthalene	50.0	56.3		ug/L		113	59 - 140	8	20
n-Butylbenzene	50.0	52.4		ug/L		105	80 - 120	5	20
N-Propylbenzene	50.0	55.9		ug/L		112	80 - 120	5	20
o-Xylene	50.0	54.3		ug/L		109	80 - 120	8	30
p-Isopropyltoluene	50.0	51.7		ug/L		103	80 - 120	5	20
sec-Butylbenzene	50.0	55.5		ug/L		111	80 - 120	5	20
Styrene	50.0	57.0		ug/L		114	80 - 120	8	20
tert-Butylbenzene	50.0	55.0		ug/L		110	80 - 121	6	20
1,1,1,2-Tetrachloroethane	50.0	58.5		ug/L		117	80 - 121	7	20
1,1,2,2-Tetrachloroethane	50.0	56.7		ug/L		113	80 - 120	9	20
Tetrachloroethylene	50.0	56.1		ug/L		112	80 - 121	5	20
Toluene	50.0	50.0		ug/L		100	80 - 113	6	20
trans-1,4-Dichloro-2-butene	50.0	53.1		ug/L		106	68 - 125	6	30
trans-1,2-Dichloroethene	50.0	48.5		ug/L		97	80 - 120	4	20
trans-1,3-Dichloropropene	50.0	50.0		ug/L		100	80 - 120	7	30
1,2,3-Trichlorobenzene	50.0	48.5		ug/L		97	61 - 141	8	20
1,2,4-Trichlorobenzene	50.0	48.3		ug/L		97	68 - 128	7	20
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	80 - 120	4	20
1,1,2-Trichloroethane	50.0	51.7		ug/L		103	80 - 120	10	20
Trichloroethene	50.0	51.4		ug/L		103	80 - 120	6	20
Trichlorofluoromethane	50.0	57.1		ug/L		114	60 - 141	3	20
1,2,3-Trichloropropane	50.0	60.7		ug/L		121	80 - 123	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.6		ug/L		113	79 - 124	4	20
1,2,4-Trimethylbenzene	50.0	52.9		ug/L		106	80 - 120	6	20
1,3,5-Trimethylbenzene	50.0	54.0		ug/L		108	80 - 120	7	20
Vinyl acetate	100	105		ug/L		105	67 - 135	3	20
Vinyl chloride	50.0	52.3		ug/L		105	71 - 128	4	20
Xylenes, Total	100	109		ug/L		109	80 - 120	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-549156/6

Matrix: Water

Analysis Batch: 549156

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	95		73 - 131
Toluene-d8 (Surr)	107		80 - 120

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-548985/8

Matrix: Water

Analysis Batch: 548985

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			11/27/18 10:39	1
Ethylene	0.50	U	1.0	0.50	ug/L			11/27/18 10:39	1
Methane	0.29	U	0.58	0.29	ug/L			11/27/18 10:39	1
Methane (TCD)	39	U	390	39	ug/L			11/27/18 10:39	1

Lab Sample ID: LCS 680-548985/3

Matrix: Water

Analysis Batch: 548985

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	277	246		ug/L		89	75 - 125
Ethylene	243	208		ug/L		86	75 - 125
Methane	268	245		ug/L		91	75 - 125

Lab Sample ID: LCS 680-548985/7

Matrix: Water

Analysis Batch: 548985

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	1860		ug/L		97	75 - 125

Lab Sample ID: LCSD 680-548985/4

Matrix: Water

Analysis Batch: 548985

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	277	252		ug/L		91	75 - 125	2	30
Ethylene	243	210		ug/L		86	75 - 125	1	30
Methane	268	252		ug/L		94	75 - 125	3	30

Lab Sample ID: LCSD 680-548985/9

Matrix: Water

Analysis Batch: 548985

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	1810		ug/L		94	75 - 125	2	30

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 680-160798-6 MS

Matrix: Water

Analysis Batch: 548985

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	26		288	300		ug/L		95	75 - 125
Ethylene	250		269	479		ug/L		83	75 - 125

Lab Sample ID: 680-160798-6 MSD

Matrix: Water

Analysis Batch: 548985

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	26		288	296		ug/L		94	75 - 125	2	30
Ethylene	250		269	470		ug/L		80	75 - 125	2	30

Lab Sample ID: MB 680-549162/43

Matrix: Water

Analysis Batch: 549162

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			11/27/18 19:33	1
Ethylene	0.50	U	1.0	0.50	ug/L			11/27/18 19:33	1
Methane	0.29	U	0.58	0.29	ug/L			11/27/18 19:33	1
Methane (TCD)	39	U	390	39	ug/L			11/27/18 19:33	1

Lab Sample ID: LCS 680-549162/39

Matrix: Water

Analysis Batch: 549162

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	277	239		ug/L		86	75 - 125
Ethylene	243	204		ug/L		84	75 - 125
Methane	268	237		ug/L		88	75 - 125

Lab Sample ID: LCS 680-549162/41

Matrix: Water

Analysis Batch: 549162

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	1770		ug/L		92	75 - 125

Lab Sample ID: LCSD 680-549162/40

Matrix: Water

Analysis Batch: 549162

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	277	246		ug/L		89	75 - 125	3	30
Ethylene	243	210		ug/L		87	75 - 125	3	30
Methane	268	240		ug/L		90	75 - 125	2	30

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 680-549162/42

Matrix: Water

Analysis Batch: 549162

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	1830		ug/L		95	75 - 125	3	30

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-548308/2

Matrix: Water

Analysis Batch: 548308

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			11/20/18 09:07	1

Lab Sample ID: LCS 680-548308/3

Matrix: Water

Analysis Batch: 548308

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	9.20		mg/L		92	87 - 112		

Lab Sample ID: LCSD 680-548308/4

Matrix: Water

Analysis Batch: 548308

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	9.49		mg/L		95	87 - 112	3	15

Lab Sample ID: 680-160798-1 DU

Matrix: Water

Analysis Batch: 548308

Client Sample ID: OLF-G71 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D		RPD	RPD Limit
Sulfate	4.8		4.71		mg/L			0.9	15

Lab Sample ID: MB 680-548347/34

Matrix: Water

Analysis Batch: 548347

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			11/20/18 17:13	1

Lab Sample ID: LCS 680-548347/35

Matrix: Water

Analysis Batch: 548347

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	9.32		mg/L		93	87 - 112		

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: LCSD 680-548347/36

Matrix: Water

Analysis Batch: 548347

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	9.20		mg/L		92	87 - 112	1	15

Lab Sample ID: 680-160798-6 MS

Matrix: Water

Analysis Batch: 548347

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	0.40	U F1 F2	10.0	8.40	F1	mg/L		84	87 - 112		

Lab Sample ID: 680-160798-6 MSD

Matrix: Water

Analysis Batch: 548347

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	0.40	U F1 F2	10.0	9.96	F2	mg/L		100	87 - 112	17	15

Lab Sample ID: 680-160798-23 MS

Matrix: Water

Analysis Batch: 548347

Client Sample ID: OLF-G73 Port 2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	0.40	U	10.0	8.87		mg/L		89	87 - 112		

Lab Sample ID: 680-160798-23 MSD

Matrix: Water

Analysis Batch: 548347

Client Sample ID: OLF-G73 Port 2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	0.40	U	10.0	9.11		mg/L		91	87 - 112	3	15

Lab Sample ID: 680-160798-12 DU

Matrix: Water

Analysis Batch: 548347

Client Sample ID: OLF-G72 Port 5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	2.6		2.61		mg/L		0.4	15

Lab Sample ID: 680-160798-22 DU

Matrix: Water

Analysis Batch: 548347

Client Sample ID: OLF-G73 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	0.40	U	0.40	U	mg/L		NC	15

Lab Sample ID: MB 680-549097/9

Matrix: Water

Analysis Batch: 549097

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			11/27/18 18:12	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Lab Sample ID: LCS 680-549097/10
Matrix: Water
Analysis Batch: 549097

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	10.1		mg/L		101	87 - 112

Lab Sample ID: LCSD 680-549097/11
Matrix: Water
Analysis Batch: 549097

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	10.5		mg/L		105	87 - 112	4	15

Lab Sample ID: 680-160798-29 MS
Matrix: Water
Analysis Batch: 549097

Client Sample ID: OLF-G07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.1		10.0	10.6		mg/L		95	87 - 112

Lab Sample ID: 680-160798-29 MSD
Matrix: Water
Analysis Batch: 549097

Client Sample ID: OLF-G07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1.1		10.0	10.8		mg/L		97	87 - 112	2	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-549022/1-B
Matrix: Water
Analysis Batch: 549406

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 549025

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		11/27/18 10:42	11/29/18 02:17	1

Lab Sample ID: LCS 680-549022/2-B
Matrix: Water
Analysis Batch: 549406

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 549025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	5000	4260		ug/L		85	80 - 120

Lab Sample ID: 680-160798-6 MS
Matrix: Water
Analysis Batch: 549406

Client Sample ID: OLF-G72 Port 1
Prep Type: Dissolved
Prep Batch: 549025

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	25000		5000	28900	4	ug/L		71	75 - 125

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

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

Lab Sample ID: 680-160798-6 MSD

Matrix: Water

Analysis Batch: 549406

Client Sample ID: OLF-G72 Port 1

Prep Type: Dissolved

Prep Batch: 549025

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Sodium	25000		5000	32200	4	ug/L		136	75 - 125	11	20

Lab Sample ID: MB 680-549036/1-B

Matrix: Water

Analysis Batch: 549561

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 549037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		11/27/18 11:26	11/29/18 21:12	1

Lab Sample ID: LCS 680-549036/2-B

Matrix: Water

Analysis Batch: 549561

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 549037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	5000	4860		ug/L		97	80 - 120

Lab Sample ID: 680-160798-29 MS

Matrix: Water

Analysis Batch: 549561

Client Sample ID: OLF-G07

Prep Type: Dissolved

Prep Batch: 549037

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	4100		5000	9050		ug/L		100	75 - 125

Lab Sample ID: 680-160798-29 MSD

Matrix: Water

Analysis Batch: 549561

Client Sample ID: OLF-G07

Prep Type: Dissolved

Prep Batch: 549037

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Sodium	4100		5000	8700		ug/L		93	75 - 125	4	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-548291/2

Matrix: Water

Analysis Batch: 548291

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			11/19/18 15:19	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			11/19/18 15:19	1

Lab Sample ID: LCS 680-548291/3

Matrix: Water

Analysis Batch: 548291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	19.7		mg/L		98	80 - 120
Total Organic Carbon - Quad	20.0	19.7		mg/L		98	80 - 120
TOC Result 1	20.0	19.2		mg/L		96	80 - 120
TOC Result 2	20.0	19.5		mg/L		97	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 680-548291/3

Matrix: Water

Analysis Batch: 548291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 3	20.0	19.8		mg/L		99	80 - 120
TOC Result 4	20.0	20.2		mg/L		101	80 - 120

Lab Sample ID: LCSD 680-548291/4

Matrix: Water

Analysis Batch: 548291

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.7		mg/L		98	80 - 120	0	25
Total Organic Carbon - Quad	20.0	19.7		mg/L		98	80 - 120	0	25
TOC Result 1	20.0	19.2		mg/L		96	80 - 120	0	25
TOC Result 2	20.0	19.5		mg/L		97	80 - 120	0	25
TOC Result 3	20.0	19.9		mg/L		100	80 - 120	1	25
TOC Result 4	20.0	20.0		mg/L		100	80 - 120	1	25

Lab Sample ID: MB 680-548292/2

Matrix: Water

Analysis Batch: 548292

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			11/20/18 00:30	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			11/20/18 00:30	1

Lab Sample ID: LCS 680-548292/3

Matrix: Water

Analysis Batch: 548292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	19.3		mg/L		96	80 - 120
Total Organic Carbon - Quad	20.0	19.3		mg/L		96	80 - 120
TOC Result 1	20.0	19.1		mg/L		95	80 - 120
TOC Result 2	20.0	19.0		mg/L		95	80 - 120
TOC Result 3	20.0	19.7		mg/L		98	80 - 120
TOC Result 4	20.0	19.3		mg/L		97	80 - 120

Lab Sample ID: LCSD 680-548292/4

Matrix: Water

Analysis Batch: 548292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.1		mg/L		96	80 - 120	1	25
Total Organic Carbon - Quad	20.0	19.1		mg/L		96	80 - 120	1	25
TOC Result 1	20.0	19.1		mg/L		95	80 - 120	0	25
TOC Result 2	20.0	18.7		mg/L		94	80 - 120	2	25
TOC Result 3	20.0	19.4		mg/L		97	80 - 120	2	25
TOC Result 4	20.0	19.4		mg/L		97	80 - 120	0	25

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 680-160798-6 MS

Matrix: Water

Analysis Batch: 548292

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	97		20.0	117	4	mg/L		98	80 - 120
Total Organic Carbon - Quad	97		20.0	117	4	mg/L		98	80 - 120
TOC Result 1	96		20.0	115	4	mg/L		90	80 - 120
TOC Result 2	97		20.0	117	4	mg/L		98	80 - 120
TOC Result 3	100		20.0	119	4	mg/L		96	80 - 120
TOC Result 4	97		20.0	118	4	mg/L		106	80 - 120

Lab Sample ID: 680-160798-6 MSD

Matrix: Water

Analysis Batch: 548292

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	97		20.0	117	4	mg/L		97	80 - 120	0	25
Total Organic Carbon - Quad	97		20.0	117	4	mg/L		97	80 - 120	0	25
TOC Result 1	96		20.0	116	4	mg/L		96	80 - 120	1	25
TOC Result 2	97		20.0	115	4	mg/L		90	80 - 120	1	25
TOC Result 3	100		20.0	118	4	mg/L		91	80 - 120	1	25
TOC Result 4	97		20.0	119	4	mg/L		113	80 - 120	1	25

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

GC/MS VOA

Analysis Batch: 548738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-19	DUP 305	Total/NA	Water	8260B	
680-160798-20	OLF-G78	Total/NA	Water	8260B	
680-160798-22	OLF-G73 Port 1	Total/NA	Water	8260B	
680-160798-23	OLF-G73 Port 2	Total/NA	Water	8260B	
680-160798-24	OLF-G73 Port 3	Total/NA	Water	8260B	
680-160798-25	OLF-G73 Port 4	Total/NA	Water	8260B	
680-160798-26	OLF-G73 Port 5	Total/NA	Water	8260B	
680-160798-27	OLF-G77	Total/NA	Water	8260B	
680-160798-28	OLF-G20	Total/NA	Water	8260B	
680-160798-29	OLF-G07	Total/NA	Water	8260B	
680-160798-30	DUP 303	Total/NA	Water	8260B	
680-160798-31	DUP 306	Total/NA	Water	8260B	
680-160798-32	TB #493	Total/NA	Water	8260B	
MB 680-548738/10	Method Blank	Total/NA	Water	8260B	
LCS 680-548738/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-548738/5	Lab Control Sample Dup	Total/NA	Water	8260B	
680-160798-29 MS	OLF-G07	Total/NA	Water	8260B	
680-160798-29 MSD	OLF-G07	Total/NA	Water	8260B	

Analysis Batch: 548796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-1	OLF-G71 Port 1	Total/NA	Water	8260B	
680-160798-3	OLF-G71 Port 3	Total/NA	Water	8260B	
680-160798-4	OLF-G71 Port 4	Total/NA	Water	8260B	
680-160798-5	OLF-G71 Port 5	Total/NA	Water	8260B	
680-160798-14	OLF-G74 Port 1	Total/NA	Water	8260B	
680-160798-15	OLF-G74 Port 2	Total/NA	Water	8260B	
680-160798-16	OLF-G74 Port 3	Total/NA	Water	8260B	
680-160798-17	OLF-G74 Port 4	Total/NA	Water	8260B	
680-160798-18	OLF-G74 Port 5	Total/NA	Water	8260B	
MB 680-548796/9	Method Blank	Total/NA	Water	8260B	
LCS 680-548796/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-548796/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 548961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-2	OLF-G71 Port 2	Total/NA	Water	8260B	
680-160798-6	OLF-G72 Port 1	Total/NA	Water	8260B	
MB 680-548961/9	Method Blank	Total/NA	Water	8260B	
LCS 680-548961/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-548961/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 548964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-7	OLF-G72 Port 2	Total/NA	Water	8260B	
680-160798-8	OLF-G72 Port 3	Total/NA	Water	8260B	
680-160798-9	OLF-G72 Port 4	Total/NA	Water	8260B	
680-160798-10	TB #491	Total/NA	Water	8260B	
680-160798-11	OLF-G72 Port 6	Total/NA	Water	8260B	
680-160798-12	OLF-G72 Port 5	Total/NA	Water	8260B	
MB 680-548964/9	Method Blank	Total/NA	Water	8260B	

TestAmerica Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

GC/MS VOA (Continued)

Analysis Batch: 548964 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-548964/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-548964/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 549154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-549154/9	Method Blank	Total/NA	Water	8260B	
LCS 680-549154/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-549154/4	Lab Control Sample Dup	Total/NA	Water	8260B	
680-160798-6 MS	OLF-G72 Port 1	Total/NA	Water	8260B	
680-160798-6 MSD	OLF-G72 Port 1	Total/NA	Water	8260B	

Analysis Batch: 549156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-21	TB #492	Total/NA	Water	8260B	
MB 680-549156/10	Method Blank	Total/NA	Water	8260B	
LCS 680-549156/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-549156/6	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 548985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-6	OLF-G72 Port 1	Total/NA	Water	RSK-175	
680-160798-7	OLF-G72 Port 2	Total/NA	Water	RSK-175	
680-160798-8	OLF-G72 Port 3	Total/NA	Water	RSK-175	
680-160798-9	OLF-G72 Port 4	Total/NA	Water	RSK-175	
680-160798-11	OLF-G72 Port 6	Total/NA	Water	RSK-175	
680-160798-12	OLF-G72 Port 5	Total/NA	Water	RSK-175	
680-160798-22	OLF-G73 Port 1	Total/NA	Water	RSK-175	
680-160798-23	OLF-G73 Port 2	Total/NA	Water	RSK-175	
680-160798-24	OLF-G73 Port 3	Total/NA	Water	RSK-175	
680-160798-25	OLF-G73 Port 4	Total/NA	Water	RSK-175	
680-160798-26	OLF-G73 Port 5	Total/NA	Water	RSK-175	
680-160798-27	OLF-G77	Total/NA	Water	RSK-175	
680-160798-31	DUP 306	Total/NA	Water	RSK-175	
MB 680-548985/8	Method Blank	Total/NA	Water	RSK-175	
LCS 680-548985/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-548985/7	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-548985/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-548985/9	Lab Control Sample Dup	Total/NA	Water	RSK-175	
680-160798-6 MS	OLF-G72 Port 1	Total/NA	Water	RSK-175	
680-160798-6 MSD	OLF-G72 Port 1	Total/NA	Water	RSK-175	

Analysis Batch: 549162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-6 - DL	OLF-G72 Port 1	Total/NA	Water	RSK-175	
MB 680-549162/43	Method Blank	Total/NA	Water	RSK-175	
LCS 680-549162/39	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-549162/41	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-549162/40	Lab Control Sample Dup	Total/NA	Water	RSK-175	

TestAmerica Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

GC VOA (Continued)

Analysis Batch: 549162 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-549162/42	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 548308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-1	OLF-G71 Port 1	Total/NA	Water	9056A	
MB 680-548308/2	Method Blank	Total/NA	Water	9056A	
LCS 680-548308/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-548308/4	Lab Control Sample Dup	Total/NA	Water	9056A	
680-160798-1 DU	OLF-G71 Port 1	Total/NA	Water	9056A	

Analysis Batch: 548347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-2	OLF-G71 Port 2	Total/NA	Water	9056A	
680-160798-3	OLF-G71 Port 3	Total/NA	Water	9056A	
680-160798-4	OLF-G71 Port 4	Total/NA	Water	9056A	
680-160798-5	OLF-G71 Port 5	Total/NA	Water	9056A	
680-160798-6	OLF-G72 Port 1	Total/NA	Water	9056A	
680-160798-7	OLF-G72 Port 2	Total/NA	Water	9056A	
680-160798-8	OLF-G72 Port 3	Total/NA	Water	9056A	
680-160798-9	OLF-G72 Port 4	Total/NA	Water	9056A	
680-160798-11	OLF-G72 Port 6	Total/NA	Water	9056A	
680-160798-12	OLF-G72 Port 5	Total/NA	Water	9056A	
680-160798-13	OLF-G08	Total/NA	Water	9056A	
680-160798-14	OLF-G74 Port 1	Total/NA	Water	9056A	
680-160798-15	OLF-G74 Port 2	Total/NA	Water	9056A	
680-160798-16	OLF-G74 Port 3	Total/NA	Water	9056A	
680-160798-17	OLF-G74 Port 4	Total/NA	Water	9056A	
680-160798-18	OLF-G74 Port 5	Total/NA	Water	9056A	
680-160798-19	DUP 305	Total/NA	Water	9056A	
680-160798-20	OLF-G78	Total/NA	Water	9056A	
680-160798-22	OLF-G73 Port 1	Total/NA	Water	9056A	
680-160798-23	OLF-G73 Port 2	Total/NA	Water	9056A	
MB 680-548347/34	Method Blank	Total/NA	Water	9056A	
LCS 680-548347/35	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-548347/36	Lab Control Sample Dup	Total/NA	Water	9056A	
680-160798-6 MS	OLF-G72 Port 1	Total/NA	Water	9056A	
680-160798-6 MSD	OLF-G72 Port 1	Total/NA	Water	9056A	
680-160798-23 MS	OLF-G73 Port 2	Total/NA	Water	9056A	
680-160798-23 MSD	OLF-G73 Port 2	Total/NA	Water	9056A	
680-160798-12 DU	OLF-G72 Port 5	Total/NA	Water	9056A	
680-160798-22 DU	OLF-G73 Port 1	Total/NA	Water	9056A	

Analysis Batch: 549097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-24	OLF-G73 Port 3	Total/NA	Water	9056A	
680-160798-25	OLF-G73 Port 4	Total/NA	Water	9056A	
680-160798-26	OLF-G73 Port 5	Total/NA	Water	9056A	
680-160798-27	OLF-G77	Total/NA	Water	9056A	

TestAmerica Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

HPLC/IC (Continued)

Analysis Batch: 549097 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-28	OLF-G20	Total/NA	Water	9056A	
680-160798-29	OLF-G07	Total/NA	Water	9056A	
680-160798-30	DUP 303	Total/NA	Water	9056A	
680-160798-31	DUP 306	Total/NA	Water	9056A	
MB 680-549097/9	Method Blank	Total/NA	Water	9056A	
LCS 680-549097/10	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-549097/11	Lab Control Sample Dup	Total/NA	Water	9056A	
680-160798-29 MS	OLF-G07	Total/NA	Water	9056A	
680-160798-29 MSD	OLF-G07	Total/NA	Water	9056A	

Metals

Filtration Batch: 549022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-1	OLF-G71 Port 1	Dissolved	Water	FILTRATION	
680-160798-2	OLF-G71 Port 2	Dissolved	Water	FILTRATION	
680-160798-3	OLF-G71 Port 3	Dissolved	Water	FILTRATION	
680-160798-4	OLF-G71 Port 4	Dissolved	Water	FILTRATION	
680-160798-5	OLF-G71 Port 5	Dissolved	Water	FILTRATION	
680-160798-6	OLF-G72 Port 1	Dissolved	Water	FILTRATION	
680-160798-7	OLF-G72 Port 2	Dissolved	Water	FILTRATION	
680-160798-8	OLF-G72 Port 3	Dissolved	Water	FILTRATION	
680-160798-9	OLF-G72 Port 4	Dissolved	Water	FILTRATION	
680-160798-11	OLF-G72 Port 6	Dissolved	Water	FILTRATION	
680-160798-13	OLF-G08	Dissolved	Water	FILTRATION	
680-160798-15	OLF-G74 Port 2	Dissolved	Water	FILTRATION	
680-160798-16	OLF-G74 Port 3	Dissolved	Water	FILTRATION	
680-160798-17	OLF-G74 Port 4	Dissolved	Water	FILTRATION	
680-160798-18	OLF-G74 Port 5	Dissolved	Water	FILTRATION	
680-160798-19	DUP 305	Dissolved	Water	FILTRATION	
680-160798-22	OLF-G73 Port 1	Dissolved	Water	FILTRATION	
680-160798-23	OLF-G73 Port 2	Dissolved	Water	FILTRATION	
680-160798-30	DUP 303	Dissolved	Water	FILTRATION	
680-160798-31	DUP 306	Dissolved	Water	FILTRATION	
MB 680-549022/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-549022/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
680-160798-6 MS	OLF-G72 Port 1	Dissolved	Water	FILTRATION	
680-160798-6 MSD	OLF-G72 Port 1	Dissolved	Water	FILTRATION	

Prep Batch: 549025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-1	OLF-G71 Port 1	Dissolved	Water	3005A	549022
680-160798-2	OLF-G71 Port 2	Dissolved	Water	3005A	549022
680-160798-3	OLF-G71 Port 3	Dissolved	Water	3005A	549022
680-160798-4	OLF-G71 Port 4	Dissolved	Water	3005A	549022
680-160798-5	OLF-G71 Port 5	Dissolved	Water	3005A	549022
680-160798-6	OLF-G72 Port 1	Dissolved	Water	3005A	549022
680-160798-7	OLF-G72 Port 2	Dissolved	Water	3005A	549022
680-160798-8	OLF-G72 Port 3	Dissolved	Water	3005A	549022
680-160798-9	OLF-G72 Port 4	Dissolved	Water	3005A	549022

TestAmerica Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Metals (Continued)

Prep Batch: 549025 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-11	OLF-G72 Port 6	Dissolved	Water	3005A	549022
680-160798-13	OLF-G08	Dissolved	Water	3005A	549022
680-160798-15	OLF-G74 Port 2	Dissolved	Water	3005A	549022
680-160798-16	OLF-G74 Port 3	Dissolved	Water	3005A	549022
680-160798-17	OLF-G74 Port 4	Dissolved	Water	3005A	549022
680-160798-18	OLF-G74 Port 5	Dissolved	Water	3005A	549022
680-160798-19	DUP 305	Dissolved	Water	3005A	549022
680-160798-22	OLF-G73 Port 1	Dissolved	Water	3005A	549022
680-160798-23	OLF-G73 Port 2	Dissolved	Water	3005A	549022
680-160798-30	DUP 303	Dissolved	Water	3005A	549022
680-160798-31	DUP 306	Dissolved	Water	3005A	549022
MB 680-549022/1-B	Method Blank	Dissolved	Water	3005A	549022
LCS 680-549022/2-B	Lab Control Sample	Dissolved	Water	3005A	549022
680-160798-6 MS	OLF-G72 Port 1	Dissolved	Water	3005A	549022
680-160798-6 MSD	OLF-G72 Port 1	Dissolved	Water	3005A	549022

Filtration Batch: 549036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-12	OLF-G72 Port 5	Dissolved	Water	FILTRATION	
680-160798-14	OLF-G74 Port 1	Dissolved	Water	FILTRATION	
680-160798-20	OLF-G78	Dissolved	Water	FILTRATION	
680-160798-24	OLF-G73 Port 3	Dissolved	Water	FILTRATION	
680-160798-25	OLF-G73 Port 4	Dissolved	Water	FILTRATION	
680-160798-26	OLF-G73 Port 5	Dissolved	Water	FILTRATION	
680-160798-27	OLF-G77	Dissolved	Water	FILTRATION	
680-160798-28	OLF-G20	Dissolved	Water	FILTRATION	
680-160798-29	OLF-G07	Dissolved	Water	FILTRATION	
MB 680-549036/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-549036/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
680-160798-29 MS	OLF-G07	Dissolved	Water	FILTRATION	
680-160798-29 MSD	OLF-G07	Dissolved	Water	FILTRATION	

Prep Batch: 549037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-12	OLF-G72 Port 5	Dissolved	Water	3005A	549036
680-160798-14	OLF-G74 Port 1	Dissolved	Water	3005A	549036
680-160798-20	OLF-G78	Dissolved	Water	3005A	549036
680-160798-24	OLF-G73 Port 3	Dissolved	Water	3005A	549036
680-160798-25	OLF-G73 Port 4	Dissolved	Water	3005A	549036
680-160798-26	OLF-G73 Port 5	Dissolved	Water	3005A	549036
680-160798-27	OLF-G77	Dissolved	Water	3005A	549036
680-160798-28	OLF-G20	Dissolved	Water	3005A	549036
680-160798-29	OLF-G07	Dissolved	Water	3005A	549036
MB 680-549036/1-B	Method Blank	Dissolved	Water	3005A	549036
LCS 680-549036/2-B	Lab Control Sample	Dissolved	Water	3005A	549036
680-160798-29 MS	OLF-G07	Dissolved	Water	3005A	549036
680-160798-29 MSD	OLF-G07	Dissolved	Water	3005A	549036

Analysis Batch: 549406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-1	OLF-G71 Port 1	Dissolved	Water	6010C	549025

TestAmerica Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Metals (Continued)

Analysis Batch: 549406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-2	OLF-G71 Port 2	Dissolved	Water	6010C	549025
680-160798-3	OLF-G71 Port 3	Dissolved	Water	6010C	549025
680-160798-4	OLF-G71 Port 4	Dissolved	Water	6010C	549025
680-160798-5	OLF-G71 Port 5	Dissolved	Water	6010C	549025
680-160798-6	OLF-G72 Port 1	Dissolved	Water	6010C	549025
680-160798-7	OLF-G72 Port 2	Dissolved	Water	6010C	549025
680-160798-8	OLF-G72 Port 3	Dissolved	Water	6010C	549025
680-160798-9	OLF-G72 Port 4	Dissolved	Water	6010C	549025
680-160798-11	OLF-G72 Port 6	Dissolved	Water	6010C	549025
680-160798-13	OLF-G08	Dissolved	Water	6010C	549025
680-160798-15	OLF-G74 Port 2	Dissolved	Water	6010C	549025
680-160798-16	OLF-G74 Port 3	Dissolved	Water	6010C	549025
680-160798-17	OLF-G74 Port 4	Dissolved	Water	6010C	549025
680-160798-18	OLF-G74 Port 5	Dissolved	Water	6010C	549025
680-160798-19	DUP 305	Dissolved	Water	6010C	549025
680-160798-22	OLF-G73 Port 1	Dissolved	Water	6010C	549025
680-160798-23	OLF-G73 Port 2	Dissolved	Water	6010C	549025
680-160798-30	DUP 303	Dissolved	Water	6010C	549025
680-160798-31	DUP 306	Dissolved	Water	6010C	549025
MB 680-549022/1-B	Method Blank	Dissolved	Water	6010C	549025
LCS 680-549022/2-B	Lab Control Sample	Dissolved	Water	6010C	549025
680-160798-6 MS	OLF-G72 Port 1	Dissolved	Water	6010C	549025
680-160798-6 MSD	OLF-G72 Port 1	Dissolved	Water	6010C	549025

Analysis Batch: 549561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-12	OLF-G72 Port 5	Dissolved	Water	6010C	549037
680-160798-14	OLF-G74 Port 1	Dissolved	Water	6010C	549037
680-160798-20	OLF-G78	Dissolved	Water	6010C	549037
680-160798-24	OLF-G73 Port 3	Dissolved	Water	6010C	549037
680-160798-25	OLF-G73 Port 4	Dissolved	Water	6010C	549037
680-160798-26	OLF-G73 Port 5	Dissolved	Water	6010C	549037
680-160798-27	OLF-G77	Dissolved	Water	6010C	549037
680-160798-28	OLF-G20	Dissolved	Water	6010C	549037
680-160798-29	OLF-G07	Dissolved	Water	6010C	549037
MB 680-549036/1-B	Method Blank	Dissolved	Water	6010C	549037
LCS 680-549036/2-B	Lab Control Sample	Dissolved	Water	6010C	549037
680-160798-29 MS	OLF-G07	Dissolved	Water	6010C	549037
680-160798-29 MSD	OLF-G07	Dissolved	Water	6010C	549037

General Chemistry

Analysis Batch: 548291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-31	DUP 306	Total/NA	Water	9060A	
MB 680-548291/2	Method Blank	Total/NA	Water	9060A	
LCS 680-548291/3	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-548291/4	Lab Control Sample Dup	Total/NA	Water	9060A	

TestAmerica Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

General Chemistry (Continued)

Analysis Batch: 548292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160798-6	OLF-G72 Port 1	Total/NA	Water	9060A	
680-160798-7	OLF-G72 Port 2	Total/NA	Water	9060A	
680-160798-8	OLF-G72 Port 3	Total/NA	Water	9060A	
680-160798-9	OLF-G72 Port 4	Total/NA	Water	9060A	
680-160798-11	OLF-G72 Port 6	Total/NA	Water	9060A	
680-160798-12	OLF-G72 Port 5	Total/NA	Water	9060A	
680-160798-14	OLF-G74 Port 1	Total/NA	Water	9060A	
680-160798-15	OLF-G74 Port 2	Total/NA	Water	9060A	
680-160798-16	OLF-G74 Port 3	Total/NA	Water	9060A	
680-160798-17	OLF-G74 Port 4	Total/NA	Water	9060A	
680-160798-18	OLF-G74 Port 5	Total/NA	Water	9060A	
680-160798-19	DUP 305	Total/NA	Water	9060A	
680-160798-22	OLF-G73 Port 1	Total/NA	Water	9060A	
680-160798-23	OLF-G73 Port 2	Total/NA	Water	9060A	
680-160798-24	OLF-G73 Port 3	Total/NA	Water	9060A	
680-160798-25	OLF-G73 Port 4	Total/NA	Water	9060A	
680-160798-26	OLF-G73 Port 5	Total/NA	Water	9060A	
680-160798-27	OLF-G77	Total/NA	Water	9060A	
MB 680-548292/2	Method Blank	Total/NA	Water	9060A	
LCS 680-548292/3	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-548292/4	Lab Control Sample Dup	Total/NA	Water	9060A	
680-160798-6 MS	OLF-G72 Port 1	Total/NA	Water	9060A	
680-160798-6 MSD	OLF-G72 Port 1	Total/NA	Water	9060A	

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 1

Date Collected: 11/14/18 10:25

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548796	11/26/18 18:51	JLK	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548308	11/20/18 16:35	SMP	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:01	BCB	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G71 Port 2

Date Collected: 11/14/18 10:40

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548961	11/27/18 16:00	EMA	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 17:52	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:59	BCB	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G71 Port 3

Date Collected: 11/14/18 10:55

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548796	11/26/18 19:33	JLK	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 18:05	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 04:03	BCB	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G71 Port 4

Date Collected: 11/14/18 11:15

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548796	11/26/18 19:57	JLK	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G71 Port 4

Lab Sample ID: 680-160798-4

Date Collected: 11/14/18 11:15

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548796	11/26/18 19:57	JLK	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 18:18	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 04:07	BCB	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G71 Port 5

Lab Sample ID: 680-160798-5

Date Collected: 11/14/18 11:35

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548796	11/26/18 20:42	JLK	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 18:31	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:45	BCB	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G72 Port 1

Lab Sample ID: 680-160798-6

Date Collected: 11/13/18 15:00

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548961	11/27/18 11:55	EMA	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 12:23	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	RSK-175	DL	2	17 mL	17 mL	549162	11/27/18 19:46	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 18:44	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 02:26	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 01:29	KDM	TAL SAV
		Instrument ID: TOC7								

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 2

Lab Sample ID: 680-160798-7

Date Collected: 11/13/18 15:40

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	548964	11/27/18 15:49	EMA	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 13:02	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 19:22	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:50	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		2.08	40 mL	40 mL	548292	11/20/18 02:33	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G72 Port 3

Lab Sample ID: 680-160798-8

Date Collected: 11/13/18 16:20

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548964	11/27/18 15:26	EMA	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 13:14	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 19:35	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 04:16	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 02:53	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G72 Port 4

Lab Sample ID: 680-160798-9

Date Collected: 11/13/18 16:45

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548964	11/27/18 15:03	EMA	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 13:27	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 19:48	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 4

Lab Sample ID: 680-160798-9

Date Collected: 11/13/18 16:45

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:37	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 03:10	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: TB #491

Lab Sample ID: 680-160798-10

Date Collected: 11/14/18 13:00

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548964	11/27/18 11:20	EMA	TAL SAV
		Instrument ID: CMSO2								

Client Sample ID: OLF-G72 Port 6

Lab Sample ID: 680-160798-11

Date Collected: 11/13/18 17:40

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548964	11/27/18 14:16	EMA	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 15:41	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 20:01	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:54	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 03:30	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G72 Port 5

Lab Sample ID: 680-160798-12

Date Collected: 11/13/18 17:20

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548964	11/27/18 14:39	EMA	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 15:54	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 20:14	TBH	TAL SAV
		Instrument ID: CICH								

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G72 Port 5

Date Collected: 11/13/18 17:20

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549036	11/27/18 11:24	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549037	11/27/18 11:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549561	11/29/18 22:32	BCB	TAL SAV
		Instrument ID: ICPF								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 03:48	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G08

Date Collected: 11/14/18 10:26

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 21:06	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 04:34	BCB	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G74 Port 1

Date Collected: 11/12/18 12:28

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548796	11/26/18 16:37	JLK	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 21:19	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549036	11/27/18 11:24	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549037	11/27/18 11:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549561	11/29/18 21:57	BCB	TAL SAV
		Instrument ID: ICPF								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 04:06	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G74 Port 2

Date Collected: 11/12/18 13:05

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548796	11/26/18 17:00	JLK	TAL SAV
		Instrument ID: CMSO2								

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G74 Port 2

Date Collected: 11/12/18 13:05

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 21:31	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 04:29	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 04:23	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G74 Port 3

Date Collected: 11/12/18 13:35

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548796	11/26/18 17:23	JLK	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 21:44	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:23	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 05:16	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G74 Port 4

Date Collected: 11/12/18 14:20

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548796	11/26/18 17:47	JLK	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 21:57	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:41	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 05:36	KDM	TAL SAV
		Instrument ID: TOC7								

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G74 Port 5

Lab Sample ID: 680-160798-18

Date Collected: 11/12/18 15:00

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548796	11/26/18 18:07	JLK	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 22:10	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 04:12	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 05:54	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: DUP 305

Lab Sample ID: 680-160798-19

Date Collected: 11/12/18 00:00

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548738	11/24/18 17:17	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 22:23	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:06	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 06:12	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G78

Lab Sample ID: 680-160798-20

Date Collected: 11/12/18 12:51

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548738	11/24/18 17:40	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 22:36	TBH	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549036	11/27/18 11:24	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549037	11/27/18 11:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549561	11/29/18 21:52	BCB	TAL SAV
		Instrument ID: ICPF								

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: TB #492

Date Collected: 11/14/01 13:30

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549156	11/28/18 12:33	EMA	TAL SAV
Instrument ID: CMSB										

Client Sample ID: OLF-G73 Port 1

Date Collected: 11/13/18 10:30

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548738	11/24/18 18:03	Y1S	TAL SAV
Instrument ID: CMSB										
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 16:07	KAB	TAL SAV
Instrument ID: CVGU										
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 22:49	TBH	TAL SAV
Instrument ID: CICH										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:15	BCB	TAL SAV
Instrument ID: ICPE										
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 06:28	KDM	TAL SAV
Instrument ID: TOC7										

Client Sample ID: OLF-G73 Port 2

Date Collected: 11/13/18 11:00

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548738	11/24/18 18:26	Y1S	TAL SAV
Instrument ID: CMSB										
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 16:19	KAB	TAL SAV
Instrument ID: CVGU										
Total/NA	Analysis	9056A		1	5 mL	5 mL	548347	11/20/18 23:15	TBH	TAL SAV
Instrument ID: CICH										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:19	BCB	TAL SAV
Instrument ID: ICPE										
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 06:50	KDM	TAL SAV
Instrument ID: TOC7										

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G73 Port 3

Lab Sample ID: 680-160798-24

Date Collected: 11/13/18 11:25

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548738	11/24/18 18:49	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 16:32	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	549097	11/27/18 19:17	SMP	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549036	11/27/18 11:24	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549037	11/27/18 11:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549561	11/29/18 22:10	BCB	TAL SAV
		Instrument ID: ICPF								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 07:08	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G73 Port 4

Lab Sample ID: 680-160798-25

Date Collected: 11/13/18 12:00

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548738	11/24/18 19:12	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 16:45	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	549097	11/27/18 19:30	SMP	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549036	11/27/18 11:24	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549037	11/27/18 11:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549561	11/29/18 22:06	BCB	TAL SAV
		Instrument ID: ICPF								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 07:26	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G73 Port 5

Lab Sample ID: 680-160798-26

Date Collected: 11/13/18 12:30

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548738	11/24/18 19:35	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 16:58	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	549097	11/27/18 19:43	SMP	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549036	11/27/18 11:24	AJR	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G73 Port 5

Lab Sample ID: 680-160798-26

Date Collected: 11/13/18 12:30

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	549037	11/27/18 11:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549561	11/29/18 22:19	BCB	TAL SAV
		Instrument ID: ICPF								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 07:43	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G77

Lab Sample ID: 680-160798-27

Date Collected: 11/13/18 10:21

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	548738	11/24/18 19:58	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 17:11	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	549097	11/27/18 19:55	SMP	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549036	11/27/18 11:24	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549037	11/27/18 11:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549561	11/29/18 22:01	BCB	TAL SAV
		Instrument ID: ICPF								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548292	11/20/18 08:06	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G20

Lab Sample ID: 680-160798-28

Date Collected: 11/13/18 15:26

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548738	11/24/18 20:22	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	9056A		1	5 mL	5 mL	549097	11/27/18 20:08	SMP	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549036	11/27/18 11:24	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549037	11/27/18 11:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549561	11/29/18 22:14	BCB	TAL SAV
		Instrument ID: ICPF								

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: OLF-G07

Date Collected: 11/13/18 13:01

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548738	11/24/18 20:45	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	9056A		1	5 mL	5 mL	549097	11/27/18 20:21	SMP	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549036	11/27/18 11:24	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549037	11/27/18 11:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549561	11/29/18 21:21	BCB	TAL SAV
		Instrument ID: ICPF								

Client Sample ID: DUP 303

Date Collected: 11/13/18 00:00

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548738	11/24/18 21:08	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	9056A		1	5 mL	5 mL	549097	11/27/18 21:00	SMP	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 02:57	BCB	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: DUP 306

Date Collected: 11/13/18 00:00

Date Received: 11/15/18 13:38

Lab Sample ID: 680-160798-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	548738	11/24/18 21:31	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	548985	11/27/18 17:24	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	549097	11/27/18 21:13	SMP	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549022	11/27/18 10:38	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549025	11/27/18 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549406	11/29/18 03:10	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	548291	11/19/18 22:30	KDM	TAL SAV
		Instrument ID: TOC7								

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Client Sample ID: TB #493

Lab Sample ID: 680-160798-32

Date Collected: 11/14/18 13:45

Matrix: Water

Date Received: 11/15/18 13:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	548738	11/24/18 16:54	Y1S	TAL SAV
Instrument ID: CMSB										

Laboratory References:

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

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87052	06-30-19

1
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12

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160798-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (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
9060A	Organic Carbon, Total (TOC)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
FILTRATION	Sample Filtration	None	TAL SAV

Protocol References:

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 = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Cooler ID 5543 Page 1 of Cooler 1 of 3

Laboratory TestAmerica
Lab Contact Jon Lawhon; Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 80(6), Landfill 3
Task # 18.094.19-05.2.500

23

Samplers Signature

[illegible]

NOTES:

Station Type: 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

Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature):

Date/Time:

11/14/18 1600

Relinquished by (Signature):

Date/Time:

Received by (Signature):

Received by (Signature): V. Z. TA 11-15-18: 1338

1.9 0.6 1.41

Age Group	Percentage
1	100%
2	100%
3	100%
4	100%
5	100%
6	100%
7	100%
8	100%
9	100%
10	100%
11	100%
12	100%

Cooler ID 5513 Cooler 2 of 3
Page 1 of

Lab contract:

22

NOTES:

Received by (Signature):

V. ~~ea~~ TA 11-15-18 1338

1.4 0.6 1.1

Cooler ID 5516 Cooler 3 of 3
Page 1 of 1

Laboratory TestAmerica

Lab Contact Jon Lawhon; Amy Ragnaldsen

MES Contact Betty Van Pelt

MES Phone 801-699-1246

Project Parcel 80(6), Landfill 3

Task # 18.094.19-05.2.500

Lab contract:

[illegible]

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
 Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

COMMENTS: See Task Order Q93 for required list of VOCs and metals.

Received by (Signature):

Date/Time:

fedex

Relinquished by (Signature):

Received by (Signature):

V. Sp TA 11-15-18 1338 H. 1.4 0.6

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-160798-1

Login Number: 160798

List Source: TestAmerica Savannah

List Number: 1

Creator: Jackson, Victor L

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	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-160919-1

Client Project/Site: Parcel 80(6), Landfill 3

For:

Matrix Environmental Services, LLC

1601 Blake Street

Suite 200

Denver, Colorado 80202

Attn: Ms. Betty Van Pelt

Kathryn Smith

Authorized for release by:

11/30/2018 9:41:13 AM

Kathryn Smith, Manager of Project Management

(912)250-0275

kathy.smith@testamericainc.com

Designee for

Jon Lawhon, Project Manager I

(912)250-0283

jon.lawhon@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Qualifiers

GC/MS VOA

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

HPLC/IC

Qualifier	Qualifier Description
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-160919-1	PPMP-229-GP12	Water	11/14/18 12:56	11/17/18 09:52
680-160919-2	OLF-G48	Water	11/15/18 11:01	11/17/18 09:52
680-160919-3	OLF-G24	Water	11/15/18 10:46	11/17/18 09:52
680-160919-4	OLF-G35	Water	11/15/18 13:46	11/17/18 09:52
680-160919-5	OLF-G23	Water	11/15/18 14:11	11/17/18 09:52
680-160919-6	TB 494	Water	11/16/18 10:45	11/17/18 09:52

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Job ID: 680-160919-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC
Project: Parcel 80(6), Landfill 3

Report Number: 680-160919-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/17/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.7° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples PPMP-229-GP12 (680-160919-1), OLF-G48 (680-160919-2), OLF-G24 (680-160919-3), OLF-G35 (680-160919-4), OLF-G23 (680-160919-5) and TB 494 (680-160919-6) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/28/2018.

Sample OLF-G23 (680-160919-5)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

METALS (ICP) - DISSOLVED

Samples OLF-G24 (680-160919-3), OLF-G35 (680-160919-4) and OLF-G23 (680-160919-5) were analyzed for Metals (ICP) - Dissolved in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/27/2018 and analyzed on 11/29/2018.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples OLF-G24 (680-160919-3), OLF-G35 (680-160919-4) and OLF-G23 (680-160919-5) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with SW 846 9056A. The samples were analyzed on 11/28/2018.

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 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: PPMP-229-GP12

Lab Sample ID: 680-160919-1

Date Collected: 11/14/18 12:56

Matrix: Water

Date Received: 11/17/18 09:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/28/18 10:53	1
Acrylonitrile	10	U	20	10	ug/L			11/28/18 10:53	1
Benzene	0.43	U	1.0	0.43	ug/L			11/28/18 10:53	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/28/18 10:53	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/28/18 10:53	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/28/18 10:53	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/28/18 10:53	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/28/18 10:53	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/28/18 10:53	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/28/18 10:53	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/28/18 10:53	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/28/18 10:53	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/28/18 10:53	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/28/18 10:53	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/18 10:53	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/28/18 10:53	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/28/18 10:53	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/28/18 10:53	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/28/18 10:53	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/28/18 10:53	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/28/18 10:53	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/28/18 10:53	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/28/18 10:53	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/18 10:53	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/28/18 10:53	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/28/18 10:53	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/28/18 10:53	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/28/18 10:53	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/28/18 10:53	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/28/18 10:53	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/28/18 10:53	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/28/18 10:53	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/28/18 10:53	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/28/18 10:53	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/28/18 10:53	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/28/18 10:53	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/28/18 10:53	1
Iodomethane	5.0	U	10	5.0	ug/L			11/28/18 10:53	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/28/18 10:53	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/28/18 10:53	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/28/18 10:53	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/28/18 10:53	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/28/18 10:53	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/28/18 10:53	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 10:53	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/28/18 10:53	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/28/18 10:53	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/28/18 10:53	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/28/18 10:53	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: PPMP-229-GP12

Lab Sample ID: 680-160919-1

Date Collected: 11/14/18 12:56

Matrix: Water

Date Received: 11/17/18 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/28/18 10:53	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/28/18 10:53	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 10:53	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/28/18 10:53	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/28/18 10:53	1
Toluene	0.48	U	1.0	0.48	ug/L			11/28/18 10:53	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/28/18 10:53	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/28/18 10:53	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/28/18 10:53	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 10:53	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 10:53	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 10:53	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/28/18 10:53	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/28/18 10:53	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/28/18 10:53	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/28/18 10:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/28/18 10:53	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 10:53	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/28/18 10:53	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/28/18 10:53	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/28/18 10:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/28/18 10:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		11/28/18 10:53	1
Dibromofluoromethane (Surr)	101		80 - 122		11/28/18 10:53	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		11/28/18 10:53	1
Toluene-d8 (Surr)	100		80 - 120		11/28/18 10:53	1

Client Sample ID: OLF-G48

Lab Sample ID: 680-160919-2

Date Collected: 11/15/18 11:01

Matrix: Water

Date Received: 11/17/18 09:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/28/18 11:16	1
Acrylonitrile	10	U	20	10	ug/L			11/28/18 11:16	1
Benzene	0.43	U	1.0	0.43	ug/L			11/28/18 11:16	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/28/18 11:16	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/28/18 11:16	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/28/18 11:16	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/28/18 11:16	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/28/18 11:16	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/28/18 11:16	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/28/18 11:16	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/28/18 11:16	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/28/18 11:16	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/28/18 11:16	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/28/18 11:16	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/18 11:16	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: OLF-G48

Lab Sample ID: 680-160919-2

Date Collected: 11/15/18 11:01

Matrix: Water

Date Received: 11/17/18 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/28/18 11:16	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/28/18 11:16	1
cis-1,2-Dichloroethene	1.1		1.0	0.41	ug/L			11/28/18 11:16	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/28/18 11:16	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/28/18 11:16	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/28/18 11:16	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/28/18 11:16	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/28/18 11:16	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/18 11:16	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/28/18 11:16	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/28/18 11:16	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/28/18 11:16	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/28/18 11:16	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/28/18 11:16	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/28/18 11:16	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/28/18 11:16	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/28/18 11:16	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/28/18 11:16	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/28/18 11:16	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/28/18 11:16	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/28/18 11:16	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/28/18 11:16	1
Iodomethane	5.0	U	10	5.0	ug/L			11/28/18 11:16	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/28/18 11:16	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/28/18 11:16	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/28/18 11:16	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/28/18 11:16	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/28/18 11:16	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/28/18 11:16	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 11:16	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/28/18 11:16	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/28/18 11:16	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/28/18 11:16	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/28/18 11:16	1
Styrene	0.27	U	1.0	0.27	ug/L			11/28/18 11:16	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/28/18 11:16	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 11:16	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/28/18 11:16	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/28/18 11:16	1
Toluene	0.48	U	1.0	0.48	ug/L			11/28/18 11:16	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/28/18 11:16	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/28/18 11:16	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/28/18 11:16	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 11:16	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 11:16	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 11:16	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/28/18 11:16	1
Trichloroethene	3.8		1.0	0.48	ug/L			11/28/18 11:16	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/28/18 11:16	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: OLF-G48

Date Collected: 11/15/18 11:01

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/28/18 11:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/28/18 11:16	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 11:16	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/28/18 11:16	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/28/18 11:16	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/28/18 11:16	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/28/18 11:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		11/28/18 11:16	1
Dibromofluoromethane (Surr)	102		80 - 122		11/28/18 11:16	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		11/28/18 11:16	1
Toluene-d8 (Surr)	100		80 - 120		11/28/18 11:16	1

Client Sample ID: OLF-G24

Date Collected: 11/15/18 10:46

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/28/18 11:39	1
Acrylonitrile	10	U	20	10	ug/L			11/28/18 11:39	1
Benzene	0.43	U	1.0	0.43	ug/L			11/28/18 11:39	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/28/18 11:39	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/28/18 11:39	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/28/18 11:39	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/28/18 11:39	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/28/18 11:39	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/28/18 11:39	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/28/18 11:39	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/28/18 11:39	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/28/18 11:39	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/28/18 11:39	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/28/18 11:39	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/18 11:39	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/28/18 11:39	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/28/18 11:39	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/28/18 11:39	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/28/18 11:39	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/28/18 11:39	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/28/18 11:39	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/28/18 11:39	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/28/18 11:39	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/18 11:39	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/28/18 11:39	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/28/18 11:39	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/28/18 11:39	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/28/18 11:39	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/28/18 11:39	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/28/18 11:39	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: OLF-G24

Lab Sample ID: 680-160919-3

Date Collected: 11/15/18 10:46

Matrix: Water

Date Received: 11/17/18 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/28/18 11:39	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/28/18 11:39	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/28/18 11:39	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/28/18 11:39	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/28/18 11:39	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/28/18 11:39	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/28/18 11:39	1
Iodomethane	5.0	U	10	5.0	ug/L			11/28/18 11:39	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/28/18 11:39	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/28/18 11:39	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/28/18 11:39	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/28/18 11:39	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/28/18 11:39	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/28/18 11:39	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 11:39	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/28/18 11:39	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/28/18 11:39	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/28/18 11:39	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/28/18 11:39	1
Styrene	0.27	U	1.0	0.27	ug/L			11/28/18 11:39	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/28/18 11:39	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 11:39	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/28/18 11:39	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/28/18 11:39	1
Toluene	0.48	U	1.0	0.48	ug/L			11/28/18 11:39	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/28/18 11:39	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/28/18 11:39	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/28/18 11:39	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 11:39	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 11:39	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 11:39	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/28/18 11:39	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/28/18 11:39	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/28/18 11:39	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/28/18 11:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/28/18 11:39	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 11:39	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/28/18 11:39	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/28/18 11:39	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/28/18 11:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/28/18 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		11/28/18 11:39	1
Dibromofluoromethane (Surr)	101		80 - 122		11/28/18 11:39	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		11/28/18 11:39	1
Toluene-d8 (Surr)	100		80 - 120		11/28/18 11:39	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: OLF-G24

Date Collected: 11/15/18 10:46

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-3

Matrix: Water

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.59	J	1.0	0.40	mg/L			11/28/18 20:07	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	830	J	1000	480	ug/L		11/27/18 14:26	11/29/18 16:09	1

Client Sample ID: OLF-G35

Date Collected: 11/15/18 13:46

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/28/18 12:01	1
Acrylonitrile	10	U	20	10	ug/L			11/28/18 12:01	1
Benzene	0.43	U	1.0	0.43	ug/L			11/28/18 12:01	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/28/18 12:01	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/28/18 12:01	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/28/18 12:01	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/28/18 12:01	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/28/18 12:01	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/28/18 12:01	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/28/18 12:01	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/28/18 12:01	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/28/18 12:01	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/28/18 12:01	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/28/18 12:01	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/18 12:01	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/28/18 12:01	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/28/18 12:01	1
cis-1,2-Dichloroethene	2.9		1.0	0.41	ug/L			11/28/18 12:01	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/28/18 12:01	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/28/18 12:01	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/28/18 12:01	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/28/18 12:01	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/28/18 12:01	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/18 12:01	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/28/18 12:01	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/28/18 12:01	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/28/18 12:01	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/28/18 12:01	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/28/18 12:01	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/28/18 12:01	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/28/18 12:01	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/28/18 12:01	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/28/18 12:01	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/28/18 12:01	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/28/18 12:01	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/28/18 12:01	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/28/18 12:01	1
Iodomethane	5.0	U	10	5.0	ug/L			11/28/18 12:01	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: OLF-G35

Lab Sample ID: 680-160919-4

Date Collected: 11/15/18 13:46

Matrix: Water

Date Received: 11/17/18 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/28/18 12:01	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/28/18 12:01	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/28/18 12:01	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/28/18 12:01	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/28/18 12:01	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/28/18 12:01	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 12:01	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/28/18 12:01	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/28/18 12:01	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/28/18 12:01	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/28/18 12:01	1
Styrene	0.27	U	1.0	0.27	ug/L			11/28/18 12:01	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/28/18 12:01	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 12:01	1
1,1,2,2-Tetrachloroethane	1.9		1.0	0.62	ug/L			11/28/18 12:01	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/28/18 12:01	1
Toluene	0.48	U	1.0	0.48	ug/L			11/28/18 12:01	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/28/18 12:01	1
trans-1,2-Dichloroethene	0.45 J		1.0	0.37	ug/L			11/28/18 12:01	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/28/18 12:01	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 12:01	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 12:01	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 12:01	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/28/18 12:01	1
Trichloroethene	11		1.0	0.48	ug/L			11/28/18 12:01	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/28/18 12:01	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/28/18 12:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/28/18 12:01	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 12:01	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/28/18 12:01	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/28/18 12:01	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/28/18 12:01	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/28/18 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		11/28/18 12:01	1
Dibromofluoromethane (Surr)	102		80 - 122		11/28/18 12:01	1
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		11/28/18 12:01	1
Toluene-d8 (Surr)	101		80 - 120		11/28/18 12:01	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	8.7		1.0	0.40	mg/L			11/28/18 20:19	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3300		1000	480	ug/L		11/27/18 14:26	11/29/18 16:13	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: OLF-G23

Lab Sample ID: 680-160919-5

Date Collected: 11/15/18 14:11

Matrix: Water

Date Received: 11/17/18 09:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	35	U	50	35	ug/L			11/28/18 12:24	5
Acrylonitrile	50	U	100	50	ug/L			11/28/18 12:24	5
Benzene	2.2	U	5.0	2.2	ug/L			11/28/18 12:24	5
Bromobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 12:24	5
Bromochloromethane	2.3	U	5.0	2.3	ug/L			11/28/18 12:24	5
Bromodichloromethane	2.2	U	5.0	2.2	ug/L			11/28/18 12:24	5
Bromoform	2.2	U	5.0	2.2	ug/L			11/28/18 12:24	5
Bromomethane	13	U	25	13	ug/L			11/28/18 12:24	5
2-Butanone (MEK)	17	U	50	17	ug/L			11/28/18 12:24	5
Carbon disulfide	5.0	U	10	5.0	ug/L			11/28/18 12:24	5
Carbon tetrachloride	1.7	U	5.0	1.7	ug/L			11/28/18 12:24	5
Chlorobenzene	4.4	J	5.0	1.3	ug/L			11/28/18 12:24	5
Chloroethane	13	U	25	13	ug/L			11/28/18 12:24	5
Chloroform	2.5	U	5.0	2.5	ug/L			11/28/18 12:24	5
Chloromethane	2.0	U	5.0	2.0	ug/L			11/28/18 12:24	5
2-Chlorotoluene	1.4	U	5.0	1.4	ug/L			11/28/18 12:24	5
4-Chlorotoluene	2.3	U	5.0	2.3	ug/L			11/28/18 12:24	5
cis-1,2-Dichloroethene	130		5.0	2.1	ug/L			11/28/18 12:24	5
cis-1,3-Dichloropropene	2.0	U	5.0	2.0	ug/L			11/28/18 12:24	5
Dibromochloromethane	1.6	U	5.0	1.6	ug/L			11/28/18 12:24	5
1,2-Dibromo-3-Chloropropane	5.5	U	25	5.5	ug/L			11/28/18 12:24	5
1,2-Dibromoethane	2.2	U	5.0	2.2	ug/L			11/28/18 12:24	5
Dibromomethane	1.8	U	5.0	1.8	ug/L			11/28/18 12:24	5
1,2-Dichlorobenzene	1.9	U	5.0	1.9	ug/L			11/28/18 12:24	5
1,3-Dichlorobenzene	2.2	U	5.0	2.2	ug/L			11/28/18 12:24	5
1,4-Dichlorobenzene	2.3	U	5.0	2.3	ug/L			11/28/18 12:24	5
Dichlorodifluoromethane	3.0	U	5.0	3.0	ug/L			11/28/18 12:24	5
1,1-Dichloroethane	1.9	U	5.0	1.9	ug/L			11/28/18 12:24	5
1,2-Dichloroethane	2.5	U	5.0	2.5	ug/L			11/28/18 12:24	5
1,1-Dichloroethene	1.8	U	5.0	1.8	ug/L			11/28/18 12:24	5
1,2-Dichloropropane	3.4	U	5.0	3.4	ug/L			11/28/18 12:24	5
1,3-Dichloropropane	1.7	U	5.0	1.7	ug/L			11/28/18 12:24	5
2,2-Dichloropropane	1.9	U	5.0	1.9	ug/L			11/28/18 12:24	5
1,1-Dichloropropene	1.7	U	5.0	1.7	ug/L			11/28/18 12:24	5
Ethylbenzene	1.7	U	5.0	1.7	ug/L			11/28/18 12:24	5
Hexachlorobutadiene	13	U	25	13	ug/L			11/28/18 12:24	5
2-Hexanone	10	U	50	10	ug/L			11/28/18 12:24	5
Iodomethane	25	U	50	25	ug/L			11/28/18 12:24	5
Isopropylbenzene	1.8	U	5.0	1.8	ug/L			11/28/18 12:24	5
Methylene Chloride	20	J	25	13	ug/L			11/28/18 12:24	5
4-Methyl-2-pentanone	11	U	50	11	ug/L			11/28/18 12:24	5
Methyl tert-butyl ether	1.5	U	50	1.5	ug/L			11/28/18 12:24	5
m-Xylene & p-Xylene	1.8	U	5.0	1.8	ug/L			11/28/18 12:24	5
Naphthalene	13	U	25	13	ug/L			11/28/18 12:24	5
n-Butylbenzene	2.4	U	5.0	2.4	ug/L			11/28/18 12:24	5
N-Propylbenzene	1.9	U	5.0	1.9	ug/L			11/28/18 12:24	5
o-Xylene	1.2	U	5.0	1.2	ug/L			11/28/18 12:24	5
p-Isopropyltoluene	2.4	U	5.0	2.4	ug/L			11/28/18 12:24	5
sec-Butylbenzene	2.1	U	5.0	2.1	ug/L			11/28/18 12:24	5

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: OLF-G23

Lab Sample ID: 680-160919-5

Date Collected: 11/15/18 14:11

Matrix: Water

Date Received: 11/17/18 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.4	U	5.0	1.4	ug/L			11/28/18 12:24	5
tert-Butylbenzene	2.3	U	5.0	2.3	ug/L			11/28/18 12:24	5
1,1,1,2-Tetrachloroethane	1.9	U	5.0	1.9	ug/L			11/28/18 12:24	5
1,1,2,2-Tetrachloroethane	230		5.0	3.1	ug/L			11/28/18 12:24	5
Tetrachloroethylene	3.7	U	5.0	3.7	ug/L			11/28/18 12:24	5
Toluene	2.4	U	5.0	2.4	ug/L			11/28/18 12:24	5
trans-1,4-Dichloro-2-butene	2.6	U	10	2.6	ug/L			11/28/18 12:24	5
trans-1,2-Dichloroethene	23		5.0	1.9	ug/L			11/28/18 12:24	5
trans-1,3-Dichloropropene	2.1	U	5.0	2.1	ug/L			11/28/18 12:24	5
1,2,3-Trichlorobenzene	13	U	25	13	ug/L			11/28/18 12:24	5
1,2,4-Trichlorobenzene	13	U	25	13	ug/L			11/28/18 12:24	5
1,1,1-Trichloroethane	1.9	U	5.0	1.9	ug/L			11/28/18 12:24	5
1,1,2-Trichloroethane	7.7		5.0	1.7	ug/L			11/28/18 12:24	5
Trichloroethene	160		5.0	2.4	ug/L			11/28/18 12:24	5
Trichlorofluoromethane	2.1	U	5.0	2.1	ug/L			11/28/18 12:24	5
1,2,3-Trichloropropane	2.0	U	5.0	2.0	ug/L			11/28/18 12:24	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.8	U	5.0	1.8	ug/L			11/28/18 12:24	5
1,2,4-Trimethylbenzene	2.4	U	5.0	2.4	ug/L			11/28/18 12:24	5
1,3,5-Trimethylbenzene	1.6	U	5.0	1.6	ug/L			11/28/18 12:24	5
Vinyl acetate	4.1	U	10	4.1	ug/L			11/28/18 12:24	5
Vinyl chloride	3.2 J		5.0	2.5	ug/L			11/28/18 12:24	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			11/28/18 12:24	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		11/28/18 12:24	5
Dibromofluoromethane (Surr)	117		80 - 122		11/28/18 12:24	5
1,2-Dichloroethane-d4 (Surr)	115		73 - 131		11/28/18 12:24	5
Toluene-d8 (Surr)	103		80 - 120		11/28/18 12:24	5

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.90	J	1.0	0.40	mg/L			11/28/18 20:31	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	5900		1000	480	ug/L		11/27/18 14:26	11/29/18 16:21	1

Client Sample ID: TB 494

Lab Sample ID: 680-160919-6

Date Collected: 11/16/18 10:45

Matrix: Water

Date Received: 11/17/18 09:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/28/18 10:31	1
Acrylonitrile	10	U	20	10	ug/L			11/28/18 10:31	1
Benzene	0.43	U	1.0	0.43	ug/L			11/28/18 10:31	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/28/18 10:31	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/28/18 10:31	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/28/18 10:31	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/28/18 10:31	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: TB 494

Date Collected: 11/16/18 10:45

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	2.5	U	5.0	2.5	ug/L			11/28/18 10:31	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/28/18 10:31	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/28/18 10:31	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/28/18 10:31	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/28/18 10:31	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/28/18 10:31	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/28/18 10:31	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/18 10:31	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/28/18 10:31	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/28/18 10:31	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/28/18 10:31	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/28/18 10:31	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/28/18 10:31	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/28/18 10:31	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/28/18 10:31	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/28/18 10:31	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/18 10:31	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/28/18 10:31	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/28/18 10:31	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/28/18 10:31	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/28/18 10:31	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/28/18 10:31	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/28/18 10:31	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/28/18 10:31	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/28/18 10:31	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/28/18 10:31	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/28/18 10:31	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/28/18 10:31	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/28/18 10:31	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/28/18 10:31	1
Iodomethane	5.0	U	10	5.0	ug/L			11/28/18 10:31	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/28/18 10:31	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/28/18 10:31	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/28/18 10:31	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/28/18 10:31	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/28/18 10:31	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/28/18 10:31	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 10:31	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/28/18 10:31	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/28/18 10:31	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/28/18 10:31	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/28/18 10:31	1
Styrene	0.27	U	1.0	0.27	ug/L			11/28/18 10:31	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/28/18 10:31	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 10:31	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/28/18 10:31	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/28/18 10:31	1
Toluene	0.48	U	1.0	0.48	ug/L			11/28/18 10:31	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/28/18 10:31	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: TB 494

Date Collected: 11/16/18 10:45

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/28/18 10:31	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/28/18 10:31	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 10:31	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 10:31	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 10:31	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/28/18 10:31	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/28/18 10:31	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/28/18 10:31	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/28/18 10:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/28/18 10:31	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 10:31	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/28/18 10:31	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/28/18 10:31	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/28/18 10:31	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/28/18 10:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		11/28/18 10:31	1
Dibromofluoromethane (Surr)	102		80 - 122		11/28/18 10:31	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		11/28/18 10:31	1
Toluene-d8 (Surr)	100		80 - 120		11/28/18 10:31	1

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-549154/9

Matrix: Water

Analysis Batch: 549154

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/28/18 10:08	1
Acrylonitrile	10	U	20	10	ug/L			11/28/18 10:08	1
Benzene	0.43	U	1.0	0.43	ug/L			11/28/18 10:08	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/28/18 10:08	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/28/18 10:08	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/28/18 10:08	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/28/18 10:08	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/28/18 10:08	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/28/18 10:08	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/28/18 10:08	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/28/18 10:08	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/28/18 10:08	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/18 10:08	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/28/18 10:08	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/28/18 10:08	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/28/18 10:08	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/28/18 10:08	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/28/18 10:08	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/28/18 10:08	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/28/18 10:08	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/28/18 10:08	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/18 10:08	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/28/18 10:08	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/28/18 10:08	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/28/18 10:08	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/28/18 10:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/28/18 10:08	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/28/18 10:08	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/28/18 10:08	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/28/18 10:08	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/28/18 10:08	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/28/18 10:08	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/28/18 10:08	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/28/18 10:08	1
Iodomethane	5.0	U	10	5.0	ug/L			11/28/18 10:08	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/28/18 10:08	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/28/18 10:08	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/28/18 10:08	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/28/18 10:08	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 10:08	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/28/18 10:08	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/28/18 10:08	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/28/18 10:08	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

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

Lab Sample ID: MB 680-549154/9

Matrix: Water

Analysis Batch: 549154

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/28/18 10:08	1
Styrene	0.27	U	1.0	0.27	ug/L			11/28/18 10:08	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/28/18 10:08	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 10:08	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/28/18 10:08	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/28/18 10:08	1
Toluene	0.48	U	1.0	0.48	ug/L			11/28/18 10:08	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/28/18 10:08	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/28/18 10:08	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/28/18 10:08	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 10:08	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 10:08	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/28/18 10:08	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/28/18 10:08	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/28/18 10:08	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/28/18 10:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/28/18 10:08	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 10:08	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/28/18 10:08	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/28/18 10:08	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/28/18 10:08	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/28/18 10:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		11/28/18 10:08	1
Dibromofluoromethane (Surr)	100		80 - 122		11/28/18 10:08	1
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		11/28/18 10:08	1
Toluene-d8 (Surr)	99		80 - 120		11/28/18 10:08	1

Lab Sample ID: LCS 680-549154/3

Matrix: Water

Analysis Batch: 549154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	229		ug/L		91	70 - 135
Acrylonitrile	500	517		ug/L		103	80 - 123
Benzene	50.0	50.5		ug/L		101	80 - 120
Bromobenzene	50.0	50.0		ug/L		100	80 - 121
Bromochloromethane	50.0	49.1		ug/L		98	80 - 120
Bromodichloromethane	50.0	49.9		ug/L		100	80 - 120
Bromoform	50.0	53.3		ug/L		107	74 - 126
Bromomethane	50.0	48.5		ug/L		97	62 - 130
2-Butanone (MEK)	250	233		ug/L		93	80 - 131
Carbon disulfide	50.0	48.8		ug/L		98	80 - 120
Carbon tetrachloride	50.0	49.4		ug/L		99	76 - 123
Chlorobenzene	50.0	50.1		ug/L		100	80 - 120
Chloroethane	50.0	49.8		ug/L		100	66 - 135

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

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

Lab Sample ID: LCS 680-549154/3

Matrix: Water

Analysis Batch: 549154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	48.9		ug/L		98	80 - 120
Chloromethane	50.0	48.7		ug/L		97	69 - 131
2-Chlorotoluene	50.0	50.4		ug/L		101	80 - 120
4-Chlorotoluene	50.0	50.8		ug/L		102	80 - 120
cis-1,2-Dichloroethene	50.0	48.9		ug/L		98	80 - 120
cis-1,3-Dichloropropene	50.0	52.1		ug/L		104	80 - 120
Dibromochloromethane	50.0	49.9		ug/L		100	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	57.0		ug/L		114	71 - 134
1,2-Dibromoethane	50.0	50.9		ug/L		102	80 - 120
Dibromomethane	50.0	48.8		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	50.7		ug/L		101	80 - 120
1,3-Dichlorobenzene	50.0	49.9		ug/L		100	80 - 120
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120
Dichlorodifluoromethane	50.0	43.1		ug/L		86	47 - 155
1,1-Dichloroethane	50.0	49.4		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	47.5		ug/L		95	80 - 120
1,1-Dichloroethene	50.0	48.8		ug/L		98	76 - 120
1,2-Dichloropropane	50.0	51.6		ug/L		103	80 - 120
1,3-Dichloropropane	50.0	50.5		ug/L		101	80 - 120
2,2-Dichloropropane	50.0	55.2		ug/L		110	76 - 126
1,1-Dichloropropene	50.0	52.0		ug/L		104	80 - 120
Ethylbenzene	50.0	50.8		ug/L		102	80 - 120
Hexachlorobutadiene	50.0	54.8		ug/L		110	60 - 140
2-Hexanone	250	260		ug/L		104	74 - 127
Iodomethane	50.0	49.4		ug/L		99	52 - 142
Isopropylbenzene	50.0	51.0		ug/L		102	80 - 120
Methylene Chloride	50.0	52.9		ug/L		106	80 - 120
4-Methyl-2-pentanone	250	257		ug/L		103	76 - 124
Methyl tert-butyl ether	50.0	50.1		ug/L		100	80 - 120
m-Xylene & p-Xylene	50.0	51.0		ug/L		102	80 - 120
Naphthalene	50.0	61.8		ug/L		124	59 - 140
n-Butylbenzene	50.0	51.6		ug/L		103	80 - 120
N-Propylbenzene	50.0	51.2		ug/L		102	80 - 120
o-Xylene	50.0	51.3		ug/L		103	80 - 120
p-Isopropyltoluene	50.0	50.0		ug/L		100	80 - 120
sec-Butylbenzene	50.0	50.9		ug/L		102	80 - 120
Styrene	50.0	53.2		ug/L		106	80 - 120
tert-Butylbenzene	50.0	50.2		ug/L		100	80 - 121
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/L		101	80 - 121
1,1,2,2-Tetrachloroethane	50.0	54.2		ug/L		108	80 - 120
Tetrachloroethylene	50.0	48.4		ug/L		97	80 - 121
Toluene	50.0	49.4		ug/L		99	80 - 113
trans-1,4-Dichloro-2-butene	50.0	48.1		ug/L		96	68 - 125
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	80 - 120
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	80 - 120
1,2,3-Trichlorobenzene	50.0	62.1		ug/L		124	61 - 141
1,2,4-Trichlorobenzene	50.0	56.6		ug/L		113	68 - 128
1,1,1-Trichloroethane	50.0	48.9		ug/L		98	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

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

Lab Sample ID: LCS 680-549154/3

Matrix: Water

Analysis Batch: 549154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	80 - 120
Trichloroethene	50.0	49.2		ug/L		98	80 - 120
Trichlorofluoromethane	50.0	44.7		ug/L		89	60 - 141
1,2,3-Trichloropropane	50.0	52.6		ug/L		105	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/L		102	79 - 124
1,2,4-Trimethylbenzene	50.0	51.4		ug/L		103	80 - 120
1,3,5-Trimethylbenzene	50.0	51.5		ug/L		103	80 - 120
Vinyl acetate	100	125		ug/L		125	67 - 135
Vinyl chloride	50.0	49.7		ug/L		99	71 - 128
Xylenes, Total	100	102		ug/L		102	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	97		80 - 122
1,2-Dichloroethane-d4 (Surr)	92		73 - 131
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: LCSD 680-549154/4

Matrix: Water

Analysis Batch: 549154

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	219		ug/L		87	70 - 135	4	30
Acrylonitrile	500	495		ug/L		99	80 - 123	4	20
Benzene	50.0	49.8		ug/L		100	80 - 120	1	20
Bromobenzene	50.0	49.6		ug/L		99	80 - 121	1	20
Bromochloromethane	50.0	47.0		ug/L		94	80 - 120	4	20
Bromodichloromethane	50.0	48.2		ug/L		96	80 - 120	4	20
Bromoform	50.0	51.2		ug/L		102	74 - 126	4	20
Bromomethane	50.0	48.7		ug/L		97	62 - 130	0	20
2-Butanone (MEK)	250	225		ug/L		90	80 - 131	4	20
Carbon disulfide	50.0	48.0		ug/L		96	80 - 120	2	20
Carbon tetrachloride	50.0	49.2		ug/L		98	76 - 123	0	20
Chlorobenzene	50.0	49.0		ug/L		98	80 - 120	2	20
Chloroethane	50.0	48.6		ug/L		97	66 - 135	2	20
Chloroform	50.0	47.8		ug/L		96	80 - 120	2	20
Chloromethane	50.0	47.6		ug/L		95	69 - 131	2	30
2-Chlorotoluene	50.0	49.6		ug/L		99	80 - 120	2	20
4-Chlorotoluene	50.0	50.4		ug/L		101	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	48.2		ug/L		96	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	80 - 120	4	20
Dibromochloromethane	50.0	48.5		ug/L		97	80 - 121	3	20
1,2-Dibromo-3-Chloropropane	50.0	56.1		ug/L		112	71 - 134	2	20
1,2-Dibromoethane	50.0	48.6		ug/L		97	80 - 120	5	20
Dibromomethane	50.0	47.2		ug/L		94	80 - 120	3	20
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 120	0	20
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 120	0	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

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

Lab Sample ID: LCSD 680-549154/4

Matrix: Water

Analysis Batch: 549154

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
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120	1	20
Dichlorodifluoromethane	50.0	42.5		ug/L		85	47 - 155	1	40
1,1-Dichloroethane	50.0	48.2		ug/L		96	80 - 120	3	20
1,2-Dichloroethane	50.0	45.9		ug/L		92	80 - 120	3	50
1,1-Dichloroethene	50.0	48.8		ug/L		98	76 - 120	0	20
1,2-Dichloropropane	50.0	50.8		ug/L		102	80 - 120	2	20
1,3-Dichloropropane	50.0	48.4		ug/L		97	80 - 120	4	20
2,2-Dichloropropane	50.0	54.5		ug/L		109	76 - 126	1	20
1,1-Dichloropropene	50.0	51.8		ug/L		104	80 - 120	0	20
Ethylbenzene	50.0	50.5		ug/L		101	80 - 120	1	20
Hexachlorobutadiene	50.0	56.4		ug/L		113	60 - 140	3	20
2-Hexanone	250	248		ug/L		99	74 - 127	5	20
Iodomethane	50.0	48.4		ug/L		97	52 - 142	2	30
Isopropylbenzene	50.0	50.5		ug/L		101	80 - 120	1	20
Methylene Chloride	50.0	50.8		ug/L		102	80 - 120	4	20
4-Methyl-2-pentanone	250	250		ug/L		100	76 - 124	3	20
Methyl tert-butyl ether	50.0	49.7		ug/L		99	80 - 120	1	20
m-Xylene & p-Xylene	50.0	49.8		ug/L		100	80 - 120	2	20
Naphthalene	50.0	62.8		ug/L		126	59 - 140	2	20
n-Butylbenzene	50.0	52.8		ug/L		106	80 - 120	2	20
N-Propylbenzene	50.0	51.2		ug/L		102	80 - 120	0	20
o-Xylene	50.0	50.5		ug/L		101	80 - 120	2	30
p-Isopropyltoluene	50.0	50.6		ug/L		101	80 - 120	1	20
sec-Butylbenzene	50.0	50.9		ug/L		102	80 - 120	0	20
Styrene	50.0	52.2		ug/L		104	80 - 120	2	20
tert-Butylbenzene	50.0	49.6		ug/L		99	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/L		100	80 - 121	0	20
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/L		105	80 - 120	3	20
Tetrachloroethylene	50.0	48.0		ug/L		96	80 - 121	1	20
Toluene	50.0	48.7		ug/L		97	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	47.8		ug/L		96	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	80 - 120	4	30
1,2,3-Trichlorobenzene	50.0	64.5		ug/L		129	61 - 141	4	20
1,2,4-Trichlorobenzene	50.0	56.9		ug/L		114	68 - 128	1	20
1,1,1-Trichloroethane	50.0	48.6		ug/L		97	80 - 120	1	20
1,1,2-Trichloroethane	50.0	48.8		ug/L		98	80 - 120	4	20
Trichloroethene	50.0	49.1		ug/L		98	80 - 120	0	20
Trichlorofluoromethane	50.0	44.5		ug/L		89	60 - 141	0	20
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	80 - 123	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.9		ug/L		104	79 - 124	1	20
1,2,4-Trimethylbenzene	50.0	50.7		ug/L		101	80 - 120	1	20
1,3,5-Trimethylbenzene	50.0	50.9		ug/L		102	80 - 120	1	20
Vinyl acetate	100	124		ug/L		124	67 - 135	1	20
Vinyl chloride	50.0	49.0		ug/L		98	71 - 128	1	20
Xylenes, Total	100	100		ug/L		100	80 - 120	2	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

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

Lab Sample ID: LCSD 680-549154/4

Matrix: Water

Analysis Batch: 549154

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	95		80 - 122
1,2-Dichloroethane-d4 (Surr)	90		73 - 131
Toluene-d8 (Surr)	92		80 - 120

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-549186/75

Matrix: Water

Analysis Batch: 549186

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	-		11/28/18 19:04	1

Lab Sample ID: LCS 680-549186/76

Matrix: Water

Analysis Batch: 549186

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	9.21		mg/L	-	92	87 - 112

Lab Sample ID: LCSD 680-549186/77

Matrix: Water

Analysis Batch: 549186

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	9.42		mg/L	-	94	87 - 112	2	15

Lab Sample ID: 680-160919-5 DU

Matrix: Water

Analysis Batch: 549186

Client Sample ID: OLF-G23

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	0.90	J	0.896	J	mg/L	-	0.7	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-549060/1-B

Matrix: Water

Analysis Batch: 549507

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 549061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L	-	11/27/18 14:26	11/29/18 14:17	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

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

Lab Sample ID: LCS 680-549060/2-B

Matrix: Water

Analysis Batch: 549507

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 549061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	5000	4600		ug/L		92	80 - 120

Lab Sample ID: LCSD 680-549060/3-B

Matrix: Water

Analysis Batch: 549507

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Prep Batch: 549061

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Sodium	5000	4690		ug/L		94	80 - 120	2	20

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

GC/MS VOA

Analysis Batch: 549154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160919-1	PPMP-229-GP12	Total/NA	Water	8260B	
680-160919-2	OLF-G48	Total/NA	Water	8260B	
680-160919-3	OLF-G24	Total/NA	Water	8260B	
680-160919-4	OLF-G35	Total/NA	Water	8260B	
680-160919-5	OLF-G23	Total/NA	Water	8260B	
680-160919-6	TB 494	Total/NA	Water	8260B	
MB 680-549154/9	Method Blank	Total/NA	Water	8260B	
LCS 680-549154/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-549154/4	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 549186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160919-3	OLF-G24	Total/NA	Water	9056A	
680-160919-4	OLF-G35	Total/NA	Water	9056A	
680-160919-5	OLF-G23	Total/NA	Water	9056A	
MB 680-549186/75	Method Blank	Total/NA	Water	9056A	
LCS 680-549186/76	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-549186/77	Lab Control Sample Dup	Total/NA	Water	9056A	
680-160919-5 DU	OLF-G23	Total/NA	Water	9056A	

Metals

Filtration Batch: 549060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160919-3	OLF-G24	Dissolved	Water	FILTRATION	
680-160919-4	OLF-G35	Dissolved	Water	FILTRATION	
680-160919-5	OLF-G23	Dissolved	Water	FILTRATION	
MB 680-549060/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-549060/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 680-549060/3-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Prep Batch: 549061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160919-3	OLF-G24	Dissolved	Water	3005A	549060
680-160919-4	OLF-G35	Dissolved	Water	3005A	549060
680-160919-5	OLF-G23	Dissolved	Water	3005A	549060
MB 680-549060/1-B	Method Blank	Dissolved	Water	3005A	549060
LCS 680-549060/2-B	Lab Control Sample	Dissolved	Water	3005A	549060
LCSD 680-549060/3-B	Lab Control Sample Dup	Dissolved	Water	3005A	549060

Analysis Batch: 549507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160919-3	OLF-G24	Dissolved	Water	6010C	549061
680-160919-4	OLF-G35	Dissolved	Water	6010C	549061
680-160919-5	OLF-G23	Dissolved	Water	6010C	549061
MB 680-549060/1-B	Method Blank	Dissolved	Water	6010C	549061
LCS 680-549060/2-B	Lab Control Sample	Dissolved	Water	6010C	549061
LCSD 680-549060/3-B	Lab Control Sample Dup	Dissolved	Water	6010C	549061

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: PPMP-229-GP12

Date Collected: 11/14/18 12:56

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	549154	11/28/18 10:53	EMA	TAL SAV
Instrument ID: CMSAA										

Client Sample ID: OLF-G48

Date Collected: 11/15/18 11:01

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	549154	11/28/18 11:16	EMA	TAL SAV
Instrument ID: CMSAA										

Client Sample ID: OLF-G24

Date Collected: 11/15/18 10:46

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	549154	11/28/18 11:39	EMA	TAL SAV
Instrument ID: CMSAA										
Total/NA	Analysis	9056A		1			549186	11/28/18 20:07	UI	TAL SAV
Instrument ID: CICL										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549060	11/27/18 14:24	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549061	11/27/18 14:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549507	11/29/18 16:09	BCB	TAL SAV
Instrument ID: ICPF										

Client Sample ID: OLF-G35

Date Collected: 11/15/18 13:46

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	549154	11/28/18 12:01	EMA	TAL SAV
Instrument ID: CMSAA										
Total/NA	Analysis	9056A		1			549186	11/28/18 20:19	UI	TAL SAV
Instrument ID: CICL										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549060	11/27/18 14:24	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549061	11/27/18 14:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549507	11/29/18 16:13	BCB	TAL SAV
Instrument ID: ICPF										

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Client Sample ID: OLF-G23

Date Collected: 11/15/18 14:11

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 g	5 g	549154	11/28/18 12:24	EMA	TAL SAV
		Instrument ID: CMSAA								
Total/NA	Analysis	9056A		1			549186	11/28/18 20:31	UI	TAL SAV
		Instrument ID: CICL								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549060	11/27/18 14:24	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549061	11/27/18 14:26	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549507	11/29/18 16:21	BCB	TAL SAV
		Instrument ID: ICPF								

Client Sample ID: TB 494

Date Collected: 11/16/18 10:45

Date Received: 11/17/18 09:52

Lab Sample ID: 680-160919-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	549154	11/28/18 10:31	EMA	TAL SAV
		Instrument ID: CMSAA								

Laboratory References:

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

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87052	06-30-19

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Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-160919-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
9056A	Anions, Ion Chromatography	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
FILTRATION	Sample Filtration	None	TAL SAV

Protocol References:

None = None

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

Laboratory References:

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

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
 Lab Contact Jon Lawhon; Amy Ragnaldsen
 MES Contact Betty Van Pelt
 MES Phone 801-699-1246
 Project Parcel 80(6), Landfill 3
 Task # 18.094.19-05.2.500
 Lab contract:

Cooler ID 5489
 Page 1 of 1

Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis					
							SW9056A Sulfate 1 - 125ml poly, none	SW6010C Sodium (dissolved, lab filtered) 1-250 ml poly, none	SW8260B - VOC 3-40 ml vials, HCl	RSK-175 - M,E,E 3-40 ml vials, HCl	SW9060A - TOC 3-40 ml amber vials, H2SO4	SW8260B - VOC TB 2-40 ml vials, HCl
PRMP-225-GP12	NS	MW	Water	BP	11/14/18	1256						
OLF-G48					11/15/18	1101						
OLF-G24					11/15/18	1046						
OLF-G35					11/15/18	1346						
OLF-G22					11/15/18	1411						
TB494	TB	TB		Grab	11/14/18	1045						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
 Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump
 White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
COMMENTS:
 See Task Order 093 for required list of VOCs and metals.
 Double the number of bottles for MS/MSD

Relinquished by (Signature):
 Date/Time: 11/16/18 1600

Received by (Signature):
 Date/Time: 11/17/18 0952

Relinquished by (Signature):

Date/Time:

Received by (Signature):
 Date/Time: 11/17/18 0952

1.7/1.7

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-160919-1

Login Number: 160919

List Number: 1

Creator: Laughlin, Paul D

List Source: TestAmerica Savannah

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?	N/A	
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	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-161061-1

Client Project/Site: Parcel 80(6), Landfill 3

For:

Matrix Environmental Services, LLC

1601 Blake Street

Suite 200

Denver, Colorado 80202

Attn: Ms. Betty Van Pelt

Kathryn Smith

Authorized for release by:

11/30/2018 3:28:23 PM

Kathryn Smith, Manager of Project Management

(912)250-0275

kathy.smith@testamericainc.com

Designee for

Jon Lawhon, Project Manager I

(912)250-0283

jon.lawhon@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-161061-1	OLF-G21	Water	11/19/18 13:41	11/21/18 10:00
680-161061-2	OLF-G12	Water	11/19/18 12:11	11/21/18 10:00
680-161061-3	OLF-G18	Water	11/19/18 10:16	11/21/18 10:00
680-161061-4	OLF-G34	Water	11/19/18 15:31	11/21/18 10:00
680-161061-5	OLF-G36	Water	11/19/18 10:51	11/21/18 10:00
680-161061-6	OLF-G33	Water	11/20/18 10:11	11/21/18 10:00
680-161061-7	OLF-G42	Water	11/19/18 15:46	11/21/18 10:00
680-161061-8	DUP 304	Water	11/19/18 00:00	11/21/18 10:00
680-161061-9	TB #495	Water	11/20/18 13:00	11/21/18 10:00
680-161061-10	OLF-G52	Water	11/20/18 12:41	11/21/18 10:00

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Job ID: 680-161061-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC
Project: Parcel 80(6), Landfill 3

Report Number: 680-161061-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/21/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OLF-G21 (680-161061-1), OLF-G12 (680-161061-2), OLF-G18 (680-161061-3), OLF-G34 (680-161061-4), OLF-G36 (680-161061-5), OLF-G33 (680-161061-6), OLF-G42 (680-161061-7), DUP 304 (680-161061-8), TB #495 (680-161061-9) and OLF-G52 (680-161061-10) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/29/2018 and 11/30/2018.

The laboratory control sample (LCS) for analytical batch 680-549166 recovered outside control limits for the following analytes: Tetrachloroethene and Styrene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for analytical batch 680-549473 recovered outside control limits for the following analytes: 1,2,3-Trichlorobenzene, Naphthalene, 1,2,4-Trichlorobenzene, Acrylonitrile, 1,1,2,2-Tetrachloroethane and Methylene Chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-549473 recovered outside control limits for the following analytes: 1,2,3-Trichlorobenzene and Naphthalene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The following analyte recovered outside control limits for the LCSD associated with analytical batch 680-549540: Bromobenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Samples OLF-G12 (680-161061-2)[5X] and DUP 304 (680-161061-8)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

METALS (ICP) - DISSOLVED

Samples OLF-G12 (680-161061-2), OLF-G34 (680-161061-4), OLF-G36 (680-161061-5), OLF-G33 (680-161061-6) and DUP 304 (680-161061-8) were analyzed for Metals (ICP) - Dissolved in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/29/2018 and analyzed on 11/30/2018.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples OLF-G12 (680-161061-2), OLF-G34 (680-161061-4), OLF-G36 (680-161061-5), OLF-G33 (680-161061-6) and DUP 304 (680-161061-8) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with SW 846 9056A. The samples were analyzed on 11/28/2018 and 11/29/2018.

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Job ID: 680-161061-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

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

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G21

Lab Sample ID: 680-161061-1

Date Collected: 11/19/18 13:41

Matrix: Water

Date Received: 11/21/18 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/30/18 05:02	1
Acrylonitrile	10	U *	20	10	ug/L			11/30/18 05:02	1
Benzene	0.43	U	1.0	0.43	ug/L			11/30/18 05:02	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/30/18 05:02	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/30/18 05:02	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/30/18 05:02	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/30/18 05:02	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/30/18 05:02	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/30/18 05:02	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/30/18 05:02	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/30/18 05:02	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/30/18 05:02	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/30/18 05:02	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/30/18 05:02	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/30/18 05:02	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/30/18 05:02	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/30/18 05:02	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/30/18 05:02	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/30/18 05:02	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/30/18 05:02	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/30/18 05:02	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/30/18 05:02	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/30/18 05:02	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/30/18 05:02	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/30/18 05:02	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/30/18 05:02	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/30/18 05:02	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/30/18 05:02	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/30/18 05:02	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/30/18 05:02	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/30/18 05:02	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/30/18 05:02	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/30/18 05:02	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/30/18 05:02	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/30/18 05:02	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/30/18 05:02	1
2-Hexanone	2.0	U *	10	2.0	ug/L			11/30/18 05:02	1
Iodomethane	5.0	U	10	5.0	ug/L			11/30/18 05:02	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/30/18 05:02	1
Methylene Chloride	2.5	U *	5.0	2.5	ug/L			11/30/18 05:02	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/30/18 05:02	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/30/18 05:02	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/30/18 05:02	1
Naphthalene	2.5	U *	5.0	2.5	ug/L			11/30/18 05:02	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/30/18 05:02	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/30/18 05:02	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/30/18 05:02	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/30/18 05:02	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/30/18 05:02	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G21

Date Collected: 11/19/18 13:41

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/30/18 05:02	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/30/18 05:02	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/30/18 05:02	1
1,1,2,2-Tetrachloroethane	0.62	U *	1.0	0.62	ug/L			11/30/18 05:02	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/30/18 05:02	1
Toluene	0.48	U	1.0	0.48	ug/L			11/30/18 05:02	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/30/18 05:02	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/30/18 05:02	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/30/18 05:02	1
1,2,3-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			11/30/18 05:02	1
1,2,4-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			11/30/18 05:02	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/30/18 05:02	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/30/18 05:02	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/30/18 05:02	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/30/18 05:02	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/30/18 05:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/30/18 05:02	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/30/18 05:02	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/30/18 05:02	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/30/18 05:02	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/30/18 05:02	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/30/18 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		11/30/18 05:02	1
Dibromofluoromethane (Surr)	104		80 - 122		11/30/18 05:02	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		11/30/18 05:02	1
Toluene-d8 (Surr)	103		80 - 120		11/30/18 05:02	1

Client Sample ID: OLF-G12

Date Collected: 11/19/18 12:11

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	35	U	50	35	ug/L			11/30/18 11:51	5
Acrylonitrile	50	U	100	50	ug/L			11/30/18 11:51	5
Benzene	2.2	U	5.0	2.2	ug/L			11/30/18 11:51	5
Bromobenzene	2.5	U *	5.0	2.5	ug/L			11/30/18 11:51	5
Bromochloromethane	2.3	U	5.0	2.3	ug/L			11/30/18 11:51	5
Bromodichloromethane	2.2	U	5.0	2.2	ug/L			11/30/18 11:51	5
Bromoform	2.2	U	5.0	2.2	ug/L			11/30/18 11:51	5
Bromomethane	13	U	25	13	ug/L			11/30/18 11:51	5
2-Butanone (MEK)	17	U	50	17	ug/L			11/30/18 11:51	5
Carbon disulfide	5.0	U	10	5.0	ug/L			11/30/18 11:51	5
Carbon tetrachloride	1.7	U	5.0	1.7	ug/L			11/30/18 11:51	5
Chlorobenzene	1.3	U	5.0	1.3	ug/L			11/30/18 11:51	5
Chloroethane	13	U	25	13	ug/L			11/30/18 11:51	5
Chloroform	2.5	U	5.0	2.5	ug/L			11/30/18 11:51	5
Chloromethane	2.0	U	5.0	2.0	ug/L			11/30/18 11:51	5

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G12

Lab Sample ID: 680-161061-2

Date Collected: 11/19/18 12:11

Matrix: Water

Date Received: 11/21/18 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	1.4	U	5.0	1.4	ug/L			11/30/18 11:51	5
4-Chlorotoluene	2.3	U	5.0	2.3	ug/L			11/30/18 11:51	5
cis-1,2-Dichloroethene	30		5.0	2.1	ug/L			11/30/18 11:51	5
cis-1,3-Dichloropropene	2.0	U	5.0	2.0	ug/L			11/30/18 11:51	5
Dibromochloromethane	1.6	U	5.0	1.6	ug/L			11/30/18 11:51	5
1,2-Dibromo-3-Chloropropane	5.5	U	25	5.5	ug/L			11/30/18 11:51	5
1,2-Dibromoethane	2.2	U	5.0	2.2	ug/L			11/30/18 11:51	5
Dibromomethane	1.8	U	5.0	1.8	ug/L			11/30/18 11:51	5
1,2-Dichlorobenzene	1.9	U	5.0	1.9	ug/L			11/30/18 11:51	5
1,3-Dichlorobenzene	2.2	U	5.0	2.2	ug/L			11/30/18 11:51	5
1,4-Dichlorobenzene	2.3	U	5.0	2.3	ug/L			11/30/18 11:51	5
Dichlorodifluoromethane	3.0	U	5.0	3.0	ug/L			11/30/18 11:51	5
1,1-Dichloroethane	1.9	U	5.0	1.9	ug/L			11/30/18 11:51	5
1,2-Dichloroethane	8.6		5.0	2.5	ug/L			11/30/18 11:51	5
1,1-Dichloroethene	1.8	U	5.0	1.8	ug/L			11/30/18 11:51	5
1,2-Dichloropropane	3.4	U	5.0	3.4	ug/L			11/30/18 11:51	5
1,3-Dichloropropane	1.7	U	5.0	1.7	ug/L			11/30/18 11:51	5
2,2-Dichloropropane	1.9	U	5.0	1.9	ug/L			11/30/18 11:51	5
1,1-Dichloropropene	1.7	U	5.0	1.7	ug/L			11/30/18 11:51	5
Ethylbenzene	1.7	U	5.0	1.7	ug/L			11/30/18 11:51	5
Hexachlorobutadiene	13	U	25	13	ug/L			11/30/18 11:51	5
2-Hexanone	10	U	50	10	ug/L			11/30/18 11:51	5
Iodomethane	25	U	50	25	ug/L			11/30/18 11:51	5
Isopropylbenzene	1.8	U	5.0	1.8	ug/L			11/30/18 11:51	5
Methylene Chloride	13	U	25	13	ug/L			11/30/18 11:51	5
4-Methyl-2-pentanone	11	U	50	11	ug/L			11/30/18 11:51	5
Methyl tert-butyl ether	1.5	U	50	1.5	ug/L			11/30/18 11:51	5
m-Xylene & p-Xylene	1.8	U	5.0	1.8	ug/L			11/30/18 11:51	5
Naphthalene	13	U	25	13	ug/L			11/30/18 11:51	5
n-Butylbenzene	2.4	U	5.0	2.4	ug/L			11/30/18 11:51	5
N-Propylbenzene	1.9	U	5.0	1.9	ug/L			11/30/18 11:51	5
o-Xylene	1.2	U	5.0	1.2	ug/L			11/30/18 11:51	5
p-Isopropyltoluene	2.4	U	5.0	2.4	ug/L			11/30/18 11:51	5
sec-Butylbenzene	2.1	U	5.0	2.1	ug/L			11/30/18 11:51	5
Styrene	1.4	U	5.0	1.4	ug/L			11/30/18 11:51	5
tert-Butylbenzene	2.3	U	5.0	2.3	ug/L			11/30/18 11:51	5
1,1,1,2-Tetrachloroethane	1.9	U	5.0	1.9	ug/L			11/30/18 11:51	5
1,1,2,2-Tetrachloroethane	310		5.0	3.1	ug/L			11/30/18 11:51	5
Tetrachloroethylene	3.7	U	5.0	3.7	ug/L			11/30/18 11:51	5
Toluene	2.4	U	5.0	2.4	ug/L			11/30/18 11:51	5
trans-1,4-Dichloro-2-butene	2.6	U	10	2.6	ug/L			11/30/18 11:51	5
trans-1,2-Dichloroethene	11		5.0	1.9	ug/L			11/30/18 11:51	5
trans-1,3-Dichloropropene	2.1	U	5.0	2.1	ug/L			11/30/18 11:51	5
1,2,3-Trichlorobenzene	13	U	25	13	ug/L			11/30/18 11:51	5
1,2,4-Trichlorobenzene	13	U	25	13	ug/L			11/30/18 11:51	5
1,1,1-Trichloroethane	1.9	U	5.0	1.9	ug/L			11/30/18 11:51	5
1,1,2-Trichloroethane	6.5		5.0	1.7	ug/L			11/30/18 11:51	5
Trichloroethene	200		5.0	2.4	ug/L			11/30/18 11:51	5
Trichlorofluoromethane	2.1	U	5.0	2.1	ug/L			11/30/18 11:51	5

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G12

Date Collected: 11/19/18 12:11

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	2.0	U	5.0	2.0	ug/L			11/30/18 11:51	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.8	U	5.0	1.8	ug/L			11/30/18 11:51	5
1,2,4-Trimethylbenzene	2.4	U	5.0	2.4	ug/L			11/30/18 11:51	5
1,3,5-Trimethylbenzene	1.6	U	5.0	1.6	ug/L			11/30/18 11:51	5
Vinyl acetate	4.1	U	10	4.1	ug/L			11/30/18 11:51	5
Vinyl chloride	2.5	U	5.0	2.5	ug/L			11/30/18 11:51	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			11/30/18 11:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		11/30/18 11:51	5
Dibromofluoromethane (Surr)	103		80 - 122		11/30/18 11:51	5
1,2-Dichloroethane-d4 (Surr)	105		73 - 131		11/30/18 11:51	5
Toluene-d8 (Surr)	101		80 - 120		11/30/18 11:51	5

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.85	J	1.0	0.40	mg/L			11/29/18 01:40	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3700		1000	480	ug/L		11/29/18 10:38	11/30/18 10:46	1

Client Sample ID: OLF-G18

Date Collected: 11/19/18 10:16

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/30/18 05:25	1
Acrylonitrile	10	U *	20	10	ug/L			11/30/18 05:25	1
Benzene	0.43	U	1.0	0.43	ug/L			11/30/18 05:25	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/30/18 05:25	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/30/18 05:25	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/30/18 05:25	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/30/18 05:25	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/30/18 05:25	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/30/18 05:25	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/30/18 05:25	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/30/18 05:25	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/30/18 05:25	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/30/18 05:25	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/30/18 05:25	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/30/18 05:25	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/30/18 05:25	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/30/18 05:25	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/30/18 05:25	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/30/18 05:25	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/30/18 05:25	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/30/18 05:25	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/30/18 05:25	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G18

Lab Sample ID: 680-161061-3

Date Collected: 11/19/18 10:16

Matrix: Water

Date Received: 11/21/18 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/30/18 05:25	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/30/18 05:25	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/30/18 05:25	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/30/18 05:25	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/30/18 05:25	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/30/18 05:25	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/30/18 05:25	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/30/18 05:25	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/30/18 05:25	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/30/18 05:25	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/30/18 05:25	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/30/18 05:25	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/30/18 05:25	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/30/18 05:25	1
2-Hexanone	2.0	U *	10	2.0	ug/L			11/30/18 05:25	1
Iodomethane	5.0	U	10	5.0	ug/L			11/30/18 05:25	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/30/18 05:25	1
Methylene Chloride	2.5	U *	5.0	2.5	ug/L			11/30/18 05:25	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/30/18 05:25	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/30/18 05:25	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/30/18 05:25	1
Naphthalene	2.5	U *	5.0	2.5	ug/L			11/30/18 05:25	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/30/18 05:25	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/30/18 05:25	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/30/18 05:25	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/30/18 05:25	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/30/18 05:25	1
Styrene	0.27	U	1.0	0.27	ug/L			11/30/18 05:25	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/30/18 05:25	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/30/18 05:25	1
1,1,2,2-Tetrachloroethane	0.62	U *	1.0	0.62	ug/L			11/30/18 05:25	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/30/18 05:25	1
Toluene	0.48	U	1.0	0.48	ug/L			11/30/18 05:25	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/30/18 05:25	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/30/18 05:25	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/30/18 05:25	1
1,2,3-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			11/30/18 05:25	1
1,2,4-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			11/30/18 05:25	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/30/18 05:25	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/30/18 05:25	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/30/18 05:25	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/30/18 05:25	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/30/18 05:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/30/18 05:25	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/30/18 05:25	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/30/18 05:25	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/30/18 05:25	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/30/18 05:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/30/18 05:25	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G18

Date Collected: 11/19/18 10:16

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		11/30/18 05:25	1
Dibromofluoromethane (Surr)	100		80 - 122		11/30/18 05:25	1
1,2-Dichloroethane-d4 (Surr)	88		73 - 131		11/30/18 05:25	1
Toluene-d8 (Surr)	100		80 - 120		11/30/18 05:25	1

Client Sample ID: OLF-G34

Date Collected: 11/19/18 15:31

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/30/18 05:47	1
Acrylonitrile	10	U *	20	10	ug/L			11/30/18 05:47	1
Benzene	0.43	U	1.0	0.43	ug/L			11/30/18 05:47	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/30/18 05:47	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/30/18 05:47	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/30/18 05:47	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/30/18 05:47	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/30/18 05:47	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/30/18 05:47	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/30/18 05:47	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/30/18 05:47	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/30/18 05:47	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/30/18 05:47	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/30/18 05:47	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/30/18 05:47	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/30/18 05:47	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/30/18 05:47	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/30/18 05:47	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/30/18 05:47	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/30/18 05:47	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/30/18 05:47	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/30/18 05:47	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/30/18 05:47	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/30/18 05:47	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/30/18 05:47	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/30/18 05:47	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/30/18 05:47	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/30/18 05:47	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/30/18 05:47	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/30/18 05:47	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/30/18 05:47	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/30/18 05:47	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/30/18 05:47	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/30/18 05:47	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/30/18 05:47	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/30/18 05:47	1
2-Hexanone	2.0	U *	10	2.0	ug/L			11/30/18 05:47	1
Iodomethane	5.0	U	10	5.0	ug/L			11/30/18 05:47	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/30/18 05:47	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G34

Lab Sample ID: 680-161061-4

Date Collected: 11/19/18 15:31

Matrix: Water

Date Received: 11/21/18 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.5	U *	5.0	2.5	ug/L			11/30/18 05:47	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/30/18 05:47	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/30/18 05:47	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/30/18 05:47	1
Naphthalene	2.5	U *	5.0	2.5	ug/L			11/30/18 05:47	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/30/18 05:47	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/30/18 05:47	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/30/18 05:47	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/30/18 05:47	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/30/18 05:47	1
Styrene	0.27	U	1.0	0.27	ug/L			11/30/18 05:47	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/30/18 05:47	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/30/18 05:47	1
1,1,2,2-Tetrachloroethane	0.62	U *	1.0	0.62	ug/L			11/30/18 05:47	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/30/18 05:47	1
Toluene	0.48	U	1.0	0.48	ug/L			11/30/18 05:47	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/30/18 05:47	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/30/18 05:47	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/30/18 05:47	1
1,2,3-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			11/30/18 05:47	1
1,2,4-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			11/30/18 05:47	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/30/18 05:47	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/30/18 05:47	1
Trichloroethene	1.2		1.0	0.48	ug/L			11/30/18 05:47	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/30/18 05:47	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/30/18 05:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/30/18 05:47	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/30/18 05:47	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/30/18 05:47	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/30/18 05:47	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/30/18 05:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/30/18 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		11/30/18 05:47	1
Dibromofluoromethane (Surr)	107		80 - 122		11/30/18 05:47	1
1,2-Dichloroethane-d4 (Surr)	101		73 - 131		11/30/18 05:47	1
Toluene-d8 (Surr)	102		80 - 120		11/30/18 05:47	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.2		1.0	0.40	mg/L			11/28/18 16:23	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	620	J	1000	480	ug/L		11/29/18 10:38	11/30/18 10:51	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G36

Lab Sample ID: 680-161061-5

Date Collected: 11/19/18 10:51

Matrix: Water

Date Received: 11/21/18 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/30/18 06:10	1
Acrylonitrile	10	U *	20	10	ug/L			11/30/18 06:10	1
Benzene	0.43	U	1.0	0.43	ug/L			11/30/18 06:10	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/30/18 06:10	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/30/18 06:10	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/30/18 06:10	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/30/18 06:10	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/30/18 06:10	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/30/18 06:10	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/30/18 06:10	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/30/18 06:10	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/30/18 06:10	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/30/18 06:10	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/30/18 06:10	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/30/18 06:10	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/30/18 06:10	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/30/18 06:10	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/30/18 06:10	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/30/18 06:10	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/30/18 06:10	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/30/18 06:10	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/30/18 06:10	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/30/18 06:10	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/30/18 06:10	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/30/18 06:10	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/30/18 06:10	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/30/18 06:10	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/30/18 06:10	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/30/18 06:10	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/30/18 06:10	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/30/18 06:10	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/30/18 06:10	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/30/18 06:10	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/30/18 06:10	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/30/18 06:10	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/30/18 06:10	1
2-Hexanone	2.0	U *	10	2.0	ug/L			11/30/18 06:10	1
Iodomethane	5.0	U	10	5.0	ug/L			11/30/18 06:10	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/30/18 06:10	1
Methylene Chloride	2.5	U *	5.0	2.5	ug/L			11/30/18 06:10	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/30/18 06:10	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/30/18 06:10	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/30/18 06:10	1
Naphthalene	2.5	U *	5.0	2.5	ug/L			11/30/18 06:10	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/30/18 06:10	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/30/18 06:10	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/30/18 06:10	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/30/18 06:10	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/30/18 06:10	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G36

Lab Sample ID: 680-161061-5

Date Collected: 11/19/18 10:51

Matrix: Water

Date Received: 11/21/18 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/30/18 06:10	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/30/18 06:10	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/30/18 06:10	1
1,1,2,2-Tetrachloroethane	0.62	U *	1.0	0.62	ug/L			11/30/18 06:10	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/30/18 06:10	1
Toluene	0.48	U	1.0	0.48	ug/L			11/30/18 06:10	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/30/18 06:10	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/30/18 06:10	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/30/18 06:10	1
1,2,3-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			11/30/18 06:10	1
1,2,4-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			11/30/18 06:10	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/30/18 06:10	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/30/18 06:10	1
Trichloroethene	0.61	J	1.0	0.48	ug/L			11/30/18 06:10	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/30/18 06:10	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/30/18 06:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/30/18 06:10	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/30/18 06:10	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/30/18 06:10	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/30/18 06:10	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/30/18 06:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/30/18 06:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		11/30/18 06:10	1
Dibromofluoromethane (Surr)	97		80 - 122		11/30/18 06:10	1
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		11/30/18 06:10	1
Toluene-d8 (Surr)	96		80 - 120		11/30/18 06:10	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	14		1.0	0.40	mg/L			11/29/18 02:06	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3300		1000	480	ug/L		11/29/18 10:38	11/30/18 10:33	1

Client Sample ID: OLF-G33

Lab Sample ID: 680-161061-6

Date Collected: 11/20/18 10:11

Matrix: Water

Date Received: 11/21/18 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/29/18 16:56	1
Acrylonitrile	10	U	20	10	ug/L			11/29/18 16:56	1
Benzene	0.43	U	1.0	0.43	ug/L			11/29/18 16:56	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/29/18 16:56	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/29/18 16:56	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/29/18 16:56	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/29/18 16:56	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G33

Lab Sample ID: 680-161061-6

Date Collected: 11/20/18 10:11

Matrix: Water

Date Received: 11/21/18 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	2.5	U	5.0	2.5	ug/L			11/29/18 16:56	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/29/18 16:56	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/29/18 16:56	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/29/18 16:56	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/29/18 16:56	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/29/18 16:56	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/29/18 16:56	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/18 16:56	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/29/18 16:56	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/29/18 16:56	1
cis-1,2-Dichloroethene	8.2		1.0	0.41	ug/L			11/29/18 16:56	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/29/18 16:56	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/29/18 16:56	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/29/18 16:56	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/29/18 16:56	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/29/18 16:56	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/18 16:56	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/29/18 16:56	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/29/18 16:56	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/29/18 16:56	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/29/18 16:56	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/29/18 16:56	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/29/18 16:56	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/29/18 16:56	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/29/18 16:56	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/29/18 16:56	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/29/18 16:56	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/29/18 16:56	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/29/18 16:56	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/29/18 16:56	1
Iodomethane	5.0	U	10	5.0	ug/L			11/29/18 16:56	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/29/18 16:56	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/29/18 16:56	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/29/18 16:56	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/29/18 16:56	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/29/18 16:56	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/29/18 16:56	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 16:56	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/29/18 16:56	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/29/18 16:56	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/29/18 16:56	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/29/18 16:56	1
Styrene	0.27	U	1.0	0.27	ug/L			11/29/18 16:56	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/29/18 16:56	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 16:56	1
1,1,2,2-Tetrachloroethane	4.5		1.0	0.62	ug/L			11/29/18 16:56	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/29/18 16:56	1
Toluene	0.48	U	1.0	0.48	ug/L			11/29/18 16:56	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/29/18 16:56	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G33

Date Collected: 11/20/18 10:11

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	2.3		1.0	0.37	ug/L			11/29/18 16:56	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/29/18 16:56	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 16:56	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 16:56	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 16:56	1
1,1,2-Trichloroethane	0.56	J	1.0	0.33	ug/L			11/29/18 16:56	1
Trichloroethene	97		1.0	0.48	ug/L			11/29/18 16:56	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/29/18 16:56	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/29/18 16:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/29/18 16:56	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 16:56	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/29/18 16:56	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/29/18 16:56	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/29/18 16:56	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/29/18 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		11/29/18 16:56	1
Dibromofluoromethane (Surr)	101		80 - 122		11/29/18 16:56	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		11/29/18 16:56	1
Toluene-d8 (Surr)	105		80 - 120		11/29/18 16:56	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4		1.0	0.40	mg/L			11/28/18 17:19	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	2300		1000	480	ug/L		11/29/18 10:38	11/30/18 10:37	1

Client Sample ID: OLG-G42

Date Collected: 11/19/18 15:46

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/29/18 03:29	1
Acrylonitrile	10	U	20	10	ug/L			11/29/18 03:29	1
Benzene	1.7		1.0	0.43	ug/L			11/29/18 03:29	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/29/18 03:29	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/29/18 03:29	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/29/18 03:29	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/29/18 03:29	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/29/18 03:29	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/29/18 03:29	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/29/18 03:29	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/29/18 03:29	1
Chlorobenzene	0.51	J	1.0	0.26	ug/L			11/29/18 03:29	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/29/18 03:29	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/29/18 03:29	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLG-G42

Lab Sample ID: 680-161061-7

Date Collected: 11/19/18 15:46

Matrix: Water

Date Received: 11/21/18 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/18 03:29	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/29/18 03:29	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/29/18 03:29	1
cis-1,2-Dichloroethene	13		1.0	0.41	ug/L			11/29/18 03:29	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/29/18 03:29	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/29/18 03:29	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/29/18 03:29	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/29/18 03:29	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/29/18 03:29	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/18 03:29	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/29/18 03:29	1
1,4-Dichlorobenzene	0.77	J	1.0	0.46	ug/L			11/29/18 03:29	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/29/18 03:29	1
1,1-Dichloroethane	3.4		1.0	0.38	ug/L			11/29/18 03:29	1
1,2-Dichloroethane	1.6		1.0	0.50	ug/L			11/29/18 03:29	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/29/18 03:29	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/29/18 03:29	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/29/18 03:29	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/29/18 03:29	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/29/18 03:29	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/29/18 03:29	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/29/18 03:29	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/29/18 03:29	1
Iodomethane	5.0	U	10	5.0	ug/L			11/29/18 03:29	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/29/18 03:29	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/29/18 03:29	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/29/18 03:29	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/29/18 03:29	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/29/18 03:29	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/29/18 03:29	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 03:29	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/29/18 03:29	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/29/18 03:29	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/29/18 03:29	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/29/18 03:29	1
Styrene	0.27	U	1.0	0.27	ug/L			11/29/18 03:29	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/29/18 03:29	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 03:29	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/29/18 03:29	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/29/18 03:29	1
Toluene	0.48	U	1.0	0.48	ug/L			11/29/18 03:29	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/29/18 03:29	1
trans-1,2-Dichloroethene	4.9		1.0	0.37	ug/L			11/29/18 03:29	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/29/18 03:29	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 03:29	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 03:29	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 03:29	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/29/18 03:29	1
Trichloroethene	0.82	J	1.0	0.48	ug/L			11/29/18 03:29	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLG-G42

Date Collected: 11/19/18 15:46

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/29/18 03:29	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/29/18 03:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/29/18 03:29	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 03:29	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/29/18 03:29	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/29/18 03:29	1
Vinyl chloride	29		1.0	0.50	ug/L			11/29/18 03:29	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/29/18 03:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		11/29/18 03:29	1
Dibromofluoromethane (Surr)	105		80 - 122		11/29/18 03:29	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		11/29/18 03:29	1
Toluene-d8 (Surr)	101		80 - 120		11/29/18 03:29	1

Client Sample ID: DUP 304

Date Collected: 11/19/18 00:00

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/29/18 17:42	1
Acrylonitrile	10	U	20	10	ug/L			11/29/18 17:42	1
Benzene	0.43	U	1.0	0.43	ug/L			11/29/18 17:42	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/29/18 17:42	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/29/18 17:42	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/29/18 17:42	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/29/18 17:42	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/29/18 17:42	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/29/18 17:42	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/29/18 17:42	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/29/18 17:42	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/29/18 17:42	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/29/18 17:42	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/29/18 17:42	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/18 17:42	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/29/18 17:42	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/29/18 17:42	1
cis-1,2-Dichloroethene	28		1.0	0.41	ug/L			11/29/18 17:42	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/29/18 17:42	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/29/18 17:42	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/29/18 17:42	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/29/18 17:42	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/29/18 17:42	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/18 17:42	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/29/18 17:42	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/29/18 17:42	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/29/18 17:42	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/29/18 17:42	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/29/18 17:42	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: DUP 304

Lab Sample ID: 680-161061-8

Date Collected: 11/19/18 00:00

Matrix: Water

Date Received: 11/21/18 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/29/18 17:42	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/29/18 17:42	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/29/18 17:42	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/29/18 17:42	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/29/18 17:42	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/29/18 17:42	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/29/18 17:42	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/29/18 17:42	1
Iodomethane	5.0	U	10	5.0	ug/L			11/29/18 17:42	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/29/18 17:42	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/29/18 17:42	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/29/18 17:42	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/29/18 17:42	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/29/18 17:42	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/29/18 17:42	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 17:42	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/29/18 17:42	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/29/18 17:42	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/29/18 17:42	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/29/18 17:42	1
Styrene	0.27	U	1.0	0.27	ug/L			11/29/18 17:42	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/29/18 17:42	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 17:42	1
Tetrachloroethylene	2.3		1.0	0.74	ug/L			11/29/18 17:42	1
Toluene	0.48	U	1.0	0.48	ug/L			11/29/18 17:42	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/29/18 17:42	1
trans-1,2-Dichloroethene	11		1.0	0.37	ug/L			11/29/18 17:42	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/29/18 17:42	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 17:42	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 17:42	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 17:42	1
1,1,2-Trichloroethane	4.9		1.0	0.33	ug/L			11/29/18 17:42	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/29/18 17:42	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/29/18 17:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/29/18 17:42	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 17:42	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/29/18 17:42	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/29/18 17:42	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/29/18 17:42	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/29/18 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		11/29/18 17:42	1
Dibromofluoromethane (Surr)	103		80 - 122		11/29/18 17:42	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		11/29/18 17:42	1
Toluene-d8 (Surr)	107		80 - 120		11/29/18 17:42	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	310		5.0	3.1	ug/L			11/30/18 11:28	5

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: DUP 304

Date Collected: 11/19/18 00:00

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	200		5.0	2.4	ug/L	-		11/30/18 11:28	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120					11/30/18 11:28	5
Dibromofluoromethane (Surr)	105		80 - 122					11/30/18 11:28	5
1,2-Dichloroethane-d4 (Surr)	106		73 - 131					11/30/18 11:28	5
Toluene-d8 (Surr)	100		80 - 120					11/30/18 11:28	5

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.84	J	1.0	0.40	mg/L	-		11/28/18 17:45	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3700		1000	480	ug/L	-	11/29/18 10:38	11/30/18 10:42	1

Client Sample ID: TB #495

Date Collected: 11/20/18 13:00

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/29/18 12:04	1
Acrylonitrile	10	U	20	10	ug/L			11/29/18 12:04	1
Benzene	0.43	U	1.0	0.43	ug/L			11/29/18 12:04	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/29/18 12:04	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/29/18 12:04	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/29/18 12:04	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/29/18 12:04	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/29/18 12:04	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/29/18 12:04	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/29/18 12:04	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/29/18 12:04	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/29/18 12:04	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/29/18 12:04	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/29/18 12:04	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/18 12:04	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/29/18 12:04	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/29/18 12:04	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/29/18 12:04	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/29/18 12:04	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/29/18 12:04	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/29/18 12:04	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/29/18 12:04	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/29/18 12:04	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/18 12:04	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/29/18 12:04	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/29/18 12:04	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/29/18 12:04	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/29/18 12:04	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: TB #495

Lab Sample ID: 680-161061-9

Date Collected: 11/20/18 13:00

Matrix: Water

Date Received: 11/21/18 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/29/18 12:04	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/29/18 12:04	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/29/18 12:04	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/29/18 12:04	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/29/18 12:04	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/29/18 12:04	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/29/18 12:04	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/29/18 12:04	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/29/18 12:04	1
Iodomethane	5.0	U	10	5.0	ug/L			11/29/18 12:04	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/29/18 12:04	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/29/18 12:04	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/29/18 12:04	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/29/18 12:04	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/29/18 12:04	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/29/18 12:04	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 12:04	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/29/18 12:04	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/29/18 12:04	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/29/18 12:04	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/29/18 12:04	1
Styrene	0.27	U	1.0	0.27	ug/L			11/29/18 12:04	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/29/18 12:04	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 12:04	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/29/18 12:04	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/29/18 12:04	1
Toluene	0.48	U	1.0	0.48	ug/L			11/29/18 12:04	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/29/18 12:04	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/29/18 12:04	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/29/18 12:04	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 12:04	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 12:04	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 12:04	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/29/18 12:04	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/29/18 12:04	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/29/18 12:04	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/29/18 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/29/18 12:04	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 12:04	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/29/18 12:04	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/29/18 12:04	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/29/18 12:04	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/29/18 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		11/29/18 12:04	1
Dibromofluoromethane (Surr)	97		80 - 122		11/29/18 12:04	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		11/29/18 12:04	1
Toluene-d8 (Surr)	99		80 - 120		11/29/18 12:04	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G52

Lab Sample ID: 680-161061-10

Date Collected: 11/20/18 12:41

Matrix: Water

Date Received: 11/21/18 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/29/18 17:19	1
Acrylonitrile	10	U	20	10	ug/L			11/29/18 17:19	1
Benzene	0.43	U	1.0	0.43	ug/L			11/29/18 17:19	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/29/18 17:19	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/29/18 17:19	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/29/18 17:19	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/29/18 17:19	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/29/18 17:19	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/29/18 17:19	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/29/18 17:19	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/29/18 17:19	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/29/18 17:19	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/29/18 17:19	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/29/18 17:19	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/18 17:19	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/29/18 17:19	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/29/18 17:19	1
cis-1,2-Dichloroethene	1.3		1.0	0.41	ug/L			11/29/18 17:19	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/29/18 17:19	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/29/18 17:19	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/29/18 17:19	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/29/18 17:19	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/29/18 17:19	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/18 17:19	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/29/18 17:19	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/29/18 17:19	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/29/18 17:19	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/29/18 17:19	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/29/18 17:19	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/29/18 17:19	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/29/18 17:19	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/29/18 17:19	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/29/18 17:19	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/29/18 17:19	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/29/18 17:19	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/29/18 17:19	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/29/18 17:19	1
Iodomethane	5.0	U	10	5.0	ug/L			11/29/18 17:19	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/29/18 17:19	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/29/18 17:19	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/29/18 17:19	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/29/18 17:19	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/29/18 17:19	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/29/18 17:19	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 17:19	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/29/18 17:19	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/29/18 17:19	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/29/18 17:19	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/29/18 17:19	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G52

Lab Sample ID: 680-161061-10

Date Collected: 11/20/18 12:41

Matrix: Water

Date Received: 11/21/18 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/29/18 17:19	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/29/18 17:19	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 17:19	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/29/18 17:19	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/29/18 17:19	1
Toluene	0.48	U	1.0	0.48	ug/L			11/29/18 17:19	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/29/18 17:19	1
trans-1,2-Dichloroethene	0.56	J	1.0	0.37	ug/L			11/29/18 17:19	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/29/18 17:19	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 17:19	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 17:19	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 17:19	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/29/18 17:19	1
Trichloroethene	8.7		1.0	0.48	ug/L			11/29/18 17:19	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/29/18 17:19	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/29/18 17:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/29/18 17:19	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 17:19	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/29/18 17:19	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/29/18 17:19	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/29/18 17:19	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/29/18 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		11/29/18 17:19	1
Dibromofluoromethane (Surr)	103		80 - 122		11/29/18 17:19	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131		11/29/18 17:19	1
Toluene-d8 (Surr)	107		80 - 120		11/29/18 17:19	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-549305/10

Matrix: Water

Analysis Batch: 549305

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/28/18 22:12	1
Acrylonitrile	10	U	20	10	ug/L			11/28/18 22:12	1
Benzene	0.43	U	1.0	0.43	ug/L			11/28/18 22:12	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/28/18 22:12	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/28/18 22:12	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/28/18 22:12	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/28/18 22:12	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/28/18 22:12	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/28/18 22:12	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/28/18 22:12	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/28/18 22:12	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/28/18 22:12	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/28/18 22:12	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/28/18 22:12	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/28/18 22:12	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/28/18 22:12	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/28/18 22:12	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/28/18 22:12	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/28/18 22:12	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/28/18 22:12	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/28/18 22:12	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/28/18 22:12	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/28/18 22:12	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/28/18 22:12	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/28/18 22:12	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/28/18 22:12	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/28/18 22:12	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/28/18 22:12	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/28/18 22:12	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/28/18 22:12	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/28/18 22:12	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/28/18 22:12	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/28/18 22:12	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/28/18 22:12	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/28/18 22:12	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/28/18 22:12	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/28/18 22:12	1
Iodomethane	5.0	U	10	5.0	ug/L			11/28/18 22:12	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/28/18 22:12	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/28/18 22:12	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/28/18 22:12	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/28/18 22:12	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/28/18 22:12	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/28/18 22:12	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 22:12	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/28/18 22:12	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/28/18 22:12	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/28/18 22:12	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: MB 680-549305/10

Matrix: Water

Analysis Batch: 549305

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/28/18 22:12	1
Styrene	0.27	U	1.0	0.27	ug/L			11/28/18 22:12	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/28/18 22:12	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 22:12	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/28/18 22:12	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/28/18 22:12	1
Toluene	0.48	U	1.0	0.48	ug/L			11/28/18 22:12	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/28/18 22:12	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/28/18 22:12	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/28/18 22:12	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 22:12	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/28/18 22:12	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/28/18 22:12	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/28/18 22:12	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/28/18 22:12	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/28/18 22:12	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/28/18 22:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/28/18 22:12	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/28/18 22:12	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/28/18 22:12	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/28/18 22:12	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/28/18 22:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/28/18 22:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		11/28/18 22:12	1
Dibromofluoromethane (Surr)	103		80 - 122		11/28/18 22:12	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131		11/28/18 22:12	1
Toluene-d8 (Surr)	102		80 - 120		11/28/18 22:12	1

Lab Sample ID: LCS 680-549305/4

Matrix: Water

Analysis Batch: 549305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	236		ug/L		94	70 - 135
Acrylonitrile	500	528		ug/L		106	80 - 123
Benzene	50.0	50.4		ug/L		101	80 - 120
Bromobenzene	50.0	49.9		ug/L		100	80 - 121
Bromochloromethane	50.0	51.3		ug/L		103	80 - 120
Bromodichloromethane	50.0	50.2		ug/L		100	80 - 120
Bromoform	50.0	53.1		ug/L		106	74 - 126
Bromomethane	50.0	48.8		ug/L		98	62 - 130
2-Butanone (MEK)	250	223		ug/L		89	80 - 131
Carbon disulfide	50.0	47.0		ug/L		94	80 - 120
Carbon tetrachloride	50.0	50.1		ug/L		100	76 - 123
Chlorobenzene	50.0	49.7		ug/L		99	80 - 120
Chloroethane	50.0	48.8		ug/L		98	66 - 135

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCS 680-549305/4

Matrix: Water

Analysis Batch: 549305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	50.5		ug/L		101	80 - 120
Chloromethane	50.0	42.3		ug/L		85	69 - 131
2-Chlorotoluene	50.0	50.0		ug/L		100	80 - 120
4-Chlorotoluene	50.0	50.5		ug/L		101	80 - 120
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	80 - 120
cis-1,3-Dichloropropene	50.0	51.5		ug/L		103	80 - 120
Dibromochloromethane	50.0	51.4		ug/L		103	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	59.1		ug/L		118	71 - 134
1,2-Dibromoethane	50.0	52.5		ug/L		105	80 - 120
Dibromomethane	50.0	50.4		ug/L		101	80 - 120
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120
1,3-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	48.0		ug/L		96	80 - 120
Dichlorodifluoromethane	50.0	33.9		ug/L		68	47 - 155
1,1-Dichloroethane	50.0	50.8		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	49.7		ug/L		99	80 - 120
1,1-Dichloroethene	50.0	49.1		ug/L		98	76 - 120
1,2-Dichloropropane	50.0	50.8		ug/L		102	80 - 120
1,3-Dichloropropane	50.0	51.2		ug/L		102	80 - 120
2,2-Dichloropropane	50.0	51.8		ug/L		104	76 - 126
1,1-Dichloropropene	50.0	50.3		ug/L		101	80 - 120
Ethylbenzene	50.0	50.2		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	53.2		ug/L		106	60 - 140
2-Hexanone	250	280		ug/L		112	74 - 127
Iodomethane	50.0	49.3		ug/L		99	52 - 142
Isopropylbenzene	50.0	50.5		ug/L		101	80 - 120
Methylene Chloride	50.0	52.2		ug/L		104	80 - 120
4-Methyl-2-pentanone	250	267		ug/L		107	76 - 124
Methyl tert-butyl ether	50.0	46.5		ug/L		93	80 - 120
m-Xylene & p-Xylene	50.0	49.5		ug/L		99	80 - 120
Naphthalene	50.0	68.1		ug/L		136	59 - 140
n-Butylbenzene	50.0	50.8		ug/L		102	80 - 120
N-Propylbenzene	50.0	50.3		ug/L		101	80 - 120
o-Xylene	50.0	50.6		ug/L		101	80 - 120
p-Isopropyltoluene	50.0	49.0		ug/L		98	80 - 120
sec-Butylbenzene	50.0	50.4		ug/L		101	80 - 120
Styrene	50.0	51.9		ug/L		104	80 - 120
tert-Butylbenzene	50.0	50.1		ug/L		100	80 - 121
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	80 - 121
1,1,2,2-Tetrachloroethane	50.0	54.3		ug/L		109	80 - 120
Tetrachloroethylene	50.0	48.9		ug/L		98	80 - 121
Toluene	50.0	50.2		ug/L		100	80 - 113
trans-1,4-Dichloro-2-butene	50.0	49.6		ug/L		99	68 - 125
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	80 - 120
trans-1,3-Dichloropropene	50.0	49.5		ug/L		99	80 - 120
1,2,3-Trichlorobenzene	50.0	65.9		ug/L		132	61 - 141
1,2,4-Trichlorobenzene	50.0	56.6		ug/L		113	68 - 128
1,1,1-Trichloroethane	50.0	49.2		ug/L		98	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCS 680-549305/4

Matrix: Water

Analysis Batch: 549305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	51.4		ug/L		103	80 - 120
Trichloroethene	50.0	49.4		ug/L		99	80 - 120
Trichlorofluoromethane	50.0	45.9		ug/L		92	60 - 141
1,2,3-Trichloropropane	50.0	54.1		ug/L		108	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.8		ug/L		96	79 - 124
1,2,4-Trimethylbenzene	50.0	51.3		ug/L		103	80 - 120
1,3,5-Trimethylbenzene	50.0	51.6		ug/L		103	80 - 120
Vinyl acetate	100	105		ug/L		105	67 - 135
Vinyl chloride	50.0	44.7		ug/L		89	71 - 128
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	96		73 - 131
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: LCSD 680-549305/5

Matrix: Water

Analysis Batch: 549305

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	234		ug/L		93	70 - 135	1	30
Acrylonitrile	500	507		ug/L		101	80 - 123	4	20
Benzene	50.0	50.8		ug/L		102	80 - 120	1	20
Bromobenzene	50.0	49.9		ug/L		100	80 - 121	0	20
Bromochloromethane	50.0	50.4		ug/L		101	80 - 120	2	20
Bromodichloromethane	50.0	50.1		ug/L		100	80 - 120	0	20
Bromoform	50.0	51.9		ug/L		104	74 - 126	2	20
Bromomethane	50.0	49.0		ug/L		98	62 - 130	0	20
2-Butanone (MEK)	250	215		ug/L		86	80 - 131	4	20
Carbon disulfide	50.0	47.6		ug/L		95	80 - 120	1	20
Carbon tetrachloride	50.0	49.7		ug/L		99	76 - 123	1	20
Chlorobenzene	50.0	48.9		ug/L		98	80 - 120	2	20
Chloroethane	50.0	48.9		ug/L		98	66 - 135	0	20
Chloroform	50.0	51.4		ug/L		103	80 - 120	2	20
Chloromethane	50.0	43.5		ug/L		87	69 - 131	3	30
2-Chlorotoluene	50.0	50.2		ug/L		100	80 - 120	0	20
4-Chlorotoluene	50.0	50.2		ug/L		100	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	51.2		ug/L		102	80 - 120	1	20
Dibromochloromethane	50.0	50.7		ug/L		101	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	58.7		ug/L		117	71 - 134	1	20
1,2-Dibromoethane	50.0	51.2		ug/L		102	80 - 120	2	20
Dibromomethane	50.0	49.6		ug/L		99	80 - 120	2	20
1,2-Dichlorobenzene	50.0	51.1		ug/L		102	80 - 120	0	20
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	2	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549305/5

Matrix: Water

Analysis Batch: 549305

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
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120	3	20
Dichlorodifluoromethane	50.0	32.5		ug/L		65	47 - 155	4	40
1,1-Dichloroethane	50.0	51.4		ug/L		103	80 - 120	1	20
1,2-Dichloroethane	50.0	48.7		ug/L		97	80 - 120	2	50
1,1-Dichloroethene	50.0	48.6		ug/L		97	76 - 120	1	20
1,2-Dichloropropane	50.0	51.3		ug/L		103	80 - 120	1	20
1,3-Dichloropropane	50.0	50.7		ug/L		101	80 - 120	1	20
2,2-Dichloropropane	50.0	51.6		ug/L		103	76 - 126	0	20
1,1-Dichloropropene	50.0	50.8		ug/L		102	80 - 120	1	20
Ethylbenzene	50.0	50.5		ug/L		101	80 - 120	0	20
Hexachlorobutadiene	50.0	54.7		ug/L		109	60 - 140	3	20
2-Hexanone	250	274		ug/L		109	74 - 127	2	20
Iodomethane	50.0	49.9		ug/L		100	52 - 142	1	30
Isopropylbenzene	50.0	50.4		ug/L		101	80 - 120	0	20
Methylene Chloride	50.0	51.8		ug/L		104	80 - 120	1	20
4-Methyl-2-pentanone	250	260		ug/L		104	76 - 124	3	20
Methyl tert-butyl ether	50.0	45.1		ug/L		90	80 - 120	3	20
m-Xylene & p-Xylene	50.0	49.6		ug/L		99	80 - 120	0	20
Naphthalene	50.0	69.1		ug/L		138	59 - 140	1	20
n-Butylbenzene	50.0	51.5		ug/L		103	80 - 120	2	20
N-Propylbenzene	50.0	50.5		ug/L		101	80 - 120	0	20
o-Xylene	50.0	50.4		ug/L		101	80 - 120	0	30
p-Isopropyltoluene	50.0	50.6		ug/L		101	80 - 120	3	20
sec-Butylbenzene	50.0	50.1		ug/L		100	80 - 120	1	20
Styrene	50.0	52.0		ug/L		104	80 - 120	0	20
tert-Butylbenzene	50.0	49.9		ug/L		100	80 - 121	0	20
1,1,1,2-Tetrachloroethane	50.0	51.2		ug/L		102	80 - 121	0	20
1,1,2,2-Tetrachloroethane	50.0	51.8		ug/L		104	80 - 120	5	20
Tetrachloroethylene	50.0	49.5		ug/L		99	80 - 121	1	20
Toluene	50.0	50.2		ug/L		100	80 - 113	0	20
trans-1,4-Dichloro-2-butene	50.0	49.3		ug/L		99	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	52.7		ug/L		105	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	49.7		ug/L		99	80 - 120	0	30
1,2,3-Trichlorobenzene	50.0	67.8		ug/L		136	61 - 141	3	20
1,2,4-Trichlorobenzene	50.0	58.1		ug/L		116	68 - 128	3	20
1,1,1-Trichloroethane	50.0	49.7		ug/L		99	80 - 120	1	20
1,1,2-Trichloroethane	50.0	50.6		ug/L		101	80 - 120	2	20
Trichloroethene	50.0	49.7		ug/L		99	80 - 120	1	20
Trichlorofluoromethane	50.0	45.3		ug/L		91	60 - 141	1	20
1,2,3-Trichloropropane	50.0	52.4		ug/L		105	80 - 123	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.7		ug/L		93	79 - 124	2	20
1,2,4-Trimethylbenzene	50.0	51.0		ug/L		102	80 - 120	1	20
1,3,5-Trimethylbenzene	50.0	51.4		ug/L		103	80 - 120	0	20
Vinyl acetate	100	101		ug/L		101	67 - 135	4	20
Vinyl chloride	50.0	45.3		ug/L		91	71 - 128	1	20
Xylenes, Total	100	100		ug/L		100	80 - 120	0	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549305/5

Matrix: Water

Analysis Batch: 549305

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	96		73 - 131
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: MB 680-549346/9

Matrix: Water

Analysis Batch: 549346

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/29/18 11:17	1
Acrylonitrile	10	U	20	10	ug/L			11/29/18 11:17	1
Benzene	0.43	U	1.0	0.43	ug/L			11/29/18 11:17	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/29/18 11:17	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/29/18 11:17	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/29/18 11:17	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/29/18 11:17	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/29/18 11:17	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/29/18 11:17	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/29/18 11:17	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/29/18 11:17	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/29/18 11:17	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/29/18 11:17	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/29/18 11:17	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/18 11:17	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/29/18 11:17	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/29/18 11:17	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/29/18 11:17	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/29/18 11:17	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/29/18 11:17	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/29/18 11:17	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/29/18 11:17	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/29/18 11:17	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/18 11:17	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/29/18 11:17	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/29/18 11:17	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/29/18 11:17	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/29/18 11:17	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/29/18 11:17	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/29/18 11:17	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/29/18 11:17	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/29/18 11:17	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/29/18 11:17	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/29/18 11:17	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/29/18 11:17	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/29/18 11:17	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/29/18 11:17	1
Iodomethane	5.0	U	10	5.0	ug/L			11/29/18 11:17	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: MB 680-549346/9

Matrix: Water

Analysis Batch: 549346

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/29/18 11:17	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/29/18 11:17	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/29/18 11:17	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/29/18 11:17	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/29/18 11:17	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/29/18 11:17	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 11:17	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/29/18 11:17	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/29/18 11:17	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/29/18 11:17	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/29/18 11:17	1
Styrene	0.27	U	1.0	0.27	ug/L			11/29/18 11:17	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/29/18 11:17	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 11:17	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/29/18 11:17	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/29/18 11:17	1
Toluene	0.48	U	1.0	0.48	ug/L			11/29/18 11:17	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/29/18 11:17	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/29/18 11:17	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/29/18 11:17	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 11:17	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 11:17	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 11:17	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/29/18 11:17	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/29/18 11:17	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/29/18 11:17	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/29/18 11:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/29/18 11:17	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 11:17	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/29/18 11:17	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/29/18 11:17	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/29/18 11:17	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/29/18 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		11/29/18 11:17	1
Dibromofluoromethane (Surr)	101		80 - 122		11/29/18 11:17	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		11/29/18 11:17	1
Toluene-d8 (Surr)	101		80 - 120		11/29/18 11:17	1

Lab Sample ID: LCS 680-549346/3

Matrix: Water

Analysis Batch: 549346

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	245		ug/L		98	70 - 135
Acrylonitrile	500	530		ug/L		106	80 - 123
Benzene	50.0	50.9		ug/L		102	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCS 680-549346/3

Matrix: Water

Analysis Batch: 549346

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	49.1		ug/L		98	80 - 121
Bromochloromethane	50.0	50.6		ug/L		101	80 - 120
Bromodichloromethane	50.0	49.4		ug/L		99	80 - 120
Bromoform	50.0	51.3		ug/L		103	74 - 126
Bromomethane	50.0	49.2		ug/L		98	62 - 130
2-Butanone (MEK)	250	238		ug/L		95	80 - 131
Carbon disulfide	50.0	49.4		ug/L		99	80 - 120
Carbon tetrachloride	50.0	48.5		ug/L		97	76 - 123
Chlorobenzene	50.0	49.3		ug/L		99	80 - 120
Chloroethane	50.0	50.7		ug/L		101	66 - 135
Chloroform	50.0	49.4		ug/L		99	80 - 120
Chloromethane	50.0	50.6		ug/L		101	69 - 131
2-Chlorotoluene	50.0	49.4		ug/L		99	80 - 120
4-Chlorotoluene	50.0	49.6		ug/L		99	80 - 120
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	80 - 120
cis-1,3-Dichloropropene	50.0	52.3		ug/L		105	80 - 120
Dibromochloromethane	50.0	49.1		ug/L		98	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	57.0		ug/L		114	71 - 134
1,2-Dibromoethane	50.0	50.1		ug/L		100	80 - 120
Dibromomethane	50.0	48.9		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120
1,3-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 120
1,4-Dichlorobenzene	50.0	48.9		ug/L		98	80 - 120
Dichlorodifluoromethane	50.0	47.0		ug/L		94	47 - 155
1,1-Dichloroethane	50.0	50.1		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	47.4		ug/L		95	80 - 120
1,1-Dichloroethene	50.0	49.2		ug/L		98	76 - 120
1,2-Dichloropropane	50.0	52.2		ug/L		104	80 - 120
1,3-Dichloropropane	50.0	50.6		ug/L		101	80 - 120
2,2-Dichloropropane	50.0	54.9		ug/L		110	76 - 126
1,1-Dichloropropene	50.0	51.8		ug/L		104	80 - 120
Ethylbenzene	50.0	50.3		ug/L		101	80 - 120
Hexachlorobutadiene	50.0	54.4		ug/L		109	60 - 140
2-Hexanone	250	272		ug/L		109	74 - 127
Iodomethane	50.0	48.8		ug/L		98	52 - 142
Isopropylbenzene	50.0	50.2		ug/L		100	80 - 120
Methylene Chloride	50.0	52.4		ug/L		105	80 - 120
4-Methyl-2-pentanone	250	263		ug/L		105	76 - 124
Methyl tert-butyl ether	50.0	49.7		ug/L		99	80 - 120
m-Xylene & p-Xylene	50.0	49.9		ug/L		100	80 - 120
Naphthalene	50.0	64.8		ug/L		130	59 - 140
n-Butylbenzene	50.0	52.2		ug/L		104	80 - 120
N-Propylbenzene	50.0	50.4		ug/L		101	80 - 120
o-Xylene	50.0	50.5		ug/L		101	80 - 120
p-Isopropyltoluene	50.0	50.2		ug/L		100	80 - 120
sec-Butylbenzene	50.0	50.5		ug/L		101	80 - 120
Styrene	50.0	52.2		ug/L		104	80 - 120
tert-Butylbenzene	50.0	49.6		ug/L		99	80 - 121

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCS 680-549346/3

Matrix: Water

Analysis Batch: 549346

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	80 - 121
1,1,2,2-Tetrachloroethane	50.0	54.9		ug/L		110	80 - 120
Tetrachloroethylene	50.0	47.2		ug/L		94	80 - 121
Toluene	50.0	49.3		ug/L		99	80 - 113
trans-1,4-Dichloro-2-butene	50.0	49.8		ug/L		100	68 - 125
trans-1,2-Dichloroethene	50.0	52.3		ug/L		105	80 - 120
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	80 - 120
1,2,3-Trichlorobenzene	50.0	65.3		ug/L		131	61 - 141
1,2,4-Trichlorobenzene	50.0	57.0		ug/L		114	68 - 128
1,1,1-Trichloroethane	50.0	48.1		ug/L		96	80 - 120
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	80 - 120
Trichloroethene	50.0	48.4		ug/L		97	80 - 120
Trichlorofluoromethane	50.0	44.6		ug/L		89	60 - 141
1,2,3-Trichloropropane	50.0	52.4		ug/L		105	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.0		ug/L		104	79 - 124
1,2,4-Trimethylbenzene	50.0	50.8		ug/L		102	80 - 120
1,3,5-Trimethylbenzene	50.0	50.8		ug/L		102	80 - 120
Vinyl acetate	100	125		ug/L		125	67 - 135
Vinyl chloride	50.0	51.3		ug/L		103	71 - 128
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	96		80 - 122
1,2-Dichloroethane-d4 (Surr)	92		73 - 131
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: LCSD 680-549346/4

Matrix: Water

Analysis Batch: 549346

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	238		ug/L		95	70 - 135	3	30
Acrylonitrile	500	525		ug/L		105	80 - 123	1	20
Benzene	50.0	50.8		ug/L		102	80 - 120	0	20
Bromobenzene	50.0	49.6		ug/L		99	80 - 121	1	20
Bromochloromethane	50.0	51.2		ug/L		102	80 - 120	1	20
Bromodichloromethane	50.0	48.3		ug/L		97	80 - 120	2	20
Bromoform	50.0	51.2		ug/L		102	74 - 126	0	20
Bromomethane	50.0	50.2		ug/L		100	62 - 130	2	20
2-Butanone (MEK)	250	204		ug/L		82	80 - 131	15	20
Carbon disulfide	50.0	51.6		ug/L		103	80 - 120	4	20
Carbon tetrachloride	50.0	49.1		ug/L		98	76 - 123	1	20
Chlorobenzene	50.0	49.4		ug/L		99	80 - 120	0	20
Chloroethane	50.0	52.6		ug/L		105	66 - 135	4	20
Chloroform	50.0	50.1		ug/L		100	80 - 120	2	20
Chloromethane	50.0	53.1		ug/L		106	69 - 131	5	30

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549346/4

Matrix: Water

Analysis Batch: 549346

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	50.0	50.1		ug/L		100	80 - 120	1	20
4-Chlorotoluene	50.0	50.4		ug/L		101	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120	3	20
cis-1,3-Dichloropropene	50.0	52.1		ug/L		104	80 - 120	0	20
Dibromochloromethane	50.0	49.4		ug/L		99	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	57.4		ug/L		115	71 - 134	1	20
1,2-Dibromoethane	50.0	50.3		ug/L		101	80 - 120	0	20
Dibromomethane	50.0	48.2		ug/L		96	80 - 120	2	20
1,2-Dichlorobenzene	50.0	51.2		ug/L		102	80 - 120	2	20
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	0	20
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120	0	20
Dichlorodifluoromethane	50.0	48.4		ug/L		97	47 - 155	3	40
1,1-Dichloroethane	50.0	51.7		ug/L		103	80 - 120	3	20
1,2-Dichloroethane	50.0	45.7		ug/L		91	80 - 120	4	50
1,1-Dichloroethene	50.0	50.7		ug/L		101	76 - 120	3	20
1,2-Dichloropropane	50.0	50.8		ug/L		102	80 - 120	3	20
1,3-Dichloropropane	50.0	50.1		ug/L		100	80 - 120	1	20
2,2-Dichloropropane	50.0	54.1		ug/L		108	76 - 126	1	20
1,1-Dichloropropene	50.0	50.7		ug/L		101	80 - 120	2	20
Ethylbenzene	50.0	50.9		ug/L		102	80 - 120	1	20
Hexachlorobutadiene	50.0	55.8		ug/L		112	60 - 140	3	20
2-Hexanone	250	272		ug/L		109	74 - 127	0	20
Iodomethane	50.0	51.0		ug/L		102	52 - 142	4	30
Isopropylbenzene	50.0	50.5		ug/L		101	80 - 120	1	20
Methylene Chloride	50.0	53.2		ug/L		106	80 - 120	2	20
4-Methyl-2-pentanone	250	254		ug/L		102	76 - 124	3	20
Methyl tert-butyl ether	50.0	42.9		ug/L		86	80 - 120	15	20
m-Xylene & p-Xylene	50.0	50.3		ug/L		101	80 - 120	1	20
Naphthalene	50.0	67.4		ug/L		135	59 - 140	4	20
n-Butylbenzene	50.0	53.1		ug/L		106	80 - 120	2	20
N-Propylbenzene	50.0	51.3		ug/L		103	80 - 120	2	20
o-Xylene	50.0	50.4		ug/L		101	80 - 120	0	30
p-Isopropyltoluene	50.0	50.6		ug/L		101	80 - 120	1	20
sec-Butylbenzene	50.0	51.5		ug/L		103	80 - 120	2	20
Styrene	50.0	52.5		ug/L		105	80 - 120	0	20
tert-Butylbenzene	50.0	50.3		ug/L		101	80 - 121	2	20
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/L		100	80 - 121	0	20
1,1,2,2-Tetrachloroethane	50.0	54.4		ug/L		109	80 - 120	1	20
Tetrachloroethylene	50.0	49.1		ug/L		98	80 - 121	4	20
Toluene	50.0	50.4		ug/L		101	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	48.9		ug/L		98	68 - 125	2	30
trans-1,2-Dichloroethene	50.0	53.0		ug/L		106	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	48.6		ug/L		97	80 - 120	1	30
1,2,3-Trichlorobenzene	50.0	68.3		ug/L		137	61 - 141	4	20
1,2,4-Trichlorobenzene	50.0	58.1		ug/L		116	68 - 128	2	20
1,1,1-Trichloroethane	50.0	48.0		ug/L		96	80 - 120	0	20
1,1,2-Trichloroethane	50.0	50.7		ug/L		101	80 - 120	1	20
Trichloroethene	50.0	48.4		ug/L		97	80 - 120	0	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549346/4

Matrix: Water

Analysis Batch: 549346

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
Trichlorofluoromethane	50.0	47.5		ug/L		95	60 - 141	6	20
1,2,3-Trichloropropane	50.0	51.6		ug/L		103	80 - 123	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.5		ug/L		101	79 - 124	3	20
1,2,4-Trimethylbenzene	50.0	51.6		ug/L		103	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	52.0		ug/L		104	80 - 120	2	20
Vinyl acetate	100	105		ug/L		105	67 - 135	17	20
Vinyl chloride	50.0	53.6		ug/L		107	71 - 128	4	20
Xylenes, Total	100	101		ug/L		101	80 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	98		80 - 122
1,2-Dichloroethane-d4 (Surr)	90		73 - 131
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: 680-161061-7 MS

Matrix: Water

Analysis Batch: 549346

Client Sample ID: OLG-G42

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	7.0	U	250	241		ug/L		96	60 - 154
Acrylonitrile	10	U	500	519		ug/L		104	72 - 132
Benzene	1.7		50.0	52.7		ug/L		102	73 - 131
Bromobenzene	0.50	U	50.0	46.3		ug/L		93	79 - 124
Bromochloromethane	0.45	U	50.0	51.1		ug/L		102	77 - 122
Bromodichloromethane	0.44	U	50.0	46.7		ug/L		93	77 - 129
Bromoform	0.43	U	50.0	46.2		ug/L		92	69 - 135
Bromomethane	2.5	U	50.0	49.3		ug/L		99	20 - 180
2-Butanone (MEK)	3.4	U	250	202		ug/L		81	75 - 133
Carbon disulfide	1.0	U	50.0	52.3		ug/L		105	73 - 127
Carbon tetrachloride	0.33	U	50.0	48.5		ug/L		97	75 - 130
Chlorobenzene	0.51	J	50.0	48.4		ug/L		96	80 - 120
Chloroethane	2.5	U	50.0	55.4		ug/L		111	50 - 151
Chloroform	0.50	U	50.0	49.9		ug/L		100	79 - 122
Chloromethane	0.40	U	50.0	54.7		ug/L		109	63 - 126
2-Chlorotoluene	0.27	U	50.0	48.2		ug/L		96	77 - 121
4-Chlorotoluene	0.45	U	50.0	48.7		ug/L		97	80 - 120
cis-1,2-Dichloroethene	13		50.0	62.1		ug/L		99	80 - 122
cis-1,3-Dichloropropene	0.40	U	50.0	48.4		ug/L		97	80 - 133
Dibromochloromethane	0.32	U	50.0	45.8		ug/L		92	71 - 136
1,2-Dibromo-3-Chloropropane	1.1	U	50.0	52.1		ug/L		104	59 - 141
1,2-Dibromoethane	0.44	U	50.0	47.5		ug/L		95	77 - 131
Dibromomethane	0.35	U	50.0	46.4		ug/L		93	80 - 122
1,2-Dichlorobenzene	0.37	U	50.0	49.3		ug/L		99	80 - 120
1,3-Dichlorobenzene	0.43	U	50.0	48.3		ug/L		97	80 - 120
1,4-Dichlorobenzene	0.77	J	50.0	47.7		ug/L		94	80 - 120
Dichlorodifluoromethane	0.60	U	50.0	50.5		ug/L		101	51 - 140

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: 680-161061-7 MS

Matrix: Water

Analysis Batch: 549346

Client Sample ID: OLG-G42

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	3.4		50.0	55.6		ug/L		104	80 - 120
1,2-Dichloroethane	1.6		50.0	47.0		ug/L		91	75 - 130
1,1-Dichloroethene	0.36	U	50.0	53.0		ug/L		106	74 - 125
1,2-Dichloropropane	0.67	U	50.0	51.7		ug/L		103	80 - 123
1,3-Dichloropropane	0.34	U	50.0	48.3		ug/L		97	78 - 127
2,2-Dichloropropane	0.37	U	50.0	48.3		ug/L		97	72 - 133
1,1-Dichloropropene	0.34	U	50.0	51.9		ug/L		104	78 - 127
Ethylbenzene	0.33	U	50.0	49.8		ug/L		100	80 - 120
Hexachlorobutadiene	2.5	U	50.0	50.9		ug/L		102	77 - 129
2-Hexanone	2.0	U	250	263		ug/L		105	70 - 141
Iodomethane	5.0	U	50.0	48.0		ug/L		96	15 - 162
Isopropylbenzene	0.35	U	50.0	49.5		ug/L		99	80 - 120
Methylene Chloride	2.5	U	50.0	52.6		ug/L		105	76 - 129
4-Methyl-2-pentanone	2.1	U	250	250		ug/L		100	75 - 135
Methyl tert-butyl ether	0.30	U	50.0	41.6		ug/L		83	74 - 135
m-Xylene & p-Xylene	0.35	U	50.0	48.7		ug/L		97	80 - 120
Naphthalene	2.5	U	50.0	56.8		ug/L		114	69 - 148
n-Butylbenzene	0.47	U	50.0	52.4		ug/L		105	78 - 124
N-Propylbenzene	0.38	U	50.0	49.2		ug/L		98	80 - 120
o-Xylene	0.23	U	50.0	49.2		ug/L		98	80 - 120
p-Isopropyltoluene	0.48	U	50.0	49.7		ug/L		99	80 - 120
sec-Butylbenzene	0.42	U	50.0	49.8		ug/L		100	76 - 125
Styrene	0.27	U	50.0	50.2		ug/L		100	80 - 122
tert-Butylbenzene	0.45	U	50.0	48.7		ug/L		97	80 - 120
1,1,1,2-Tetrachloroethane	0.37	U	50.0	47.4		ug/L		95	80 - 120
1,1,2,2-Tetrachloroethane	0.62	U	50.0	52.2		ug/L		104	72 - 128
Tetrachloroethylene	0.74	U	50.0	48.1		ug/L		96	77 - 123
Toluene	0.48	U	50.0	49.7		ug/L		99	80 - 122
trans-1,4-Dichloro-2-butene	0.51	U	50.0	44.6		ug/L		89	55 - 147
trans-1,2-Dichloroethene	4.9		50.0	59.0		ug/L		108	78 - 123
trans-1,3-Dichloropropene	0.42	U	50.0	45.6		ug/L		91	74 - 140
1,2,3-Trichlorobenzene	2.5	U	50.0	57.2		ug/L		114	61 - 151
1,2,4-Trichlorobenzene	2.5	U	50.0	51.6		ug/L		103	77 - 131
1,1,1-Trichloroethane	0.37	U	50.0	48.8		ug/L		98	74 - 128
1,1,2-Trichloroethane	0.33	U	50.0	48.8		ug/L		98	79 - 125
Trichloroethene	0.82	J	50.0	48.5		ug/L		95	80 - 123
Trichlorofluoromethane	0.42	U	50.0	47.7		ug/L		95	58 - 145
1,2,3-Trichloropropane	0.39	U	50.0	49.1		ug/L		98	70 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	50.0	52.9		ug/L		106	65 - 131
1,2,4-Trimethylbenzene	0.47	U	50.0	49.1		ug/L		98	80 - 124
1,3,5-Trimethylbenzene	0.31	U	50.0	49.4		ug/L		99	80 - 120
Vinyl acetate	0.81	U	100	95.6		ug/L		96	15 - 190
Vinyl chloride	29		50.0	80.7		ug/L		104	68 - 132
Xylenes, Total	0.23	U	100	97.9		ug/L		98	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: 680-161061-7 MS

Matrix: Water

Analysis Batch: 549346

Client Sample ID: OLG-G42

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	94		80 - 122
1,2-Dichloroethane-d4 (Surr)	90		73 - 131
Toluene-d8 (Surr)	93		80 - 120

Lab Sample ID: 680-161061-7 MSD

Matrix: Water

Analysis Batch: 549346

Client Sample ID: OLG-G42

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	7.0	U	250	245		ug/L		98	60 - 154	1	30
Acrylonitrile	10	U	500	525		ug/L		105	72 - 132	1	20
Benzene	1.7		50.0	52.5		ug/L		102	73 - 131	0	20
Bromobenzene	0.50	U	50.0	47.4		ug/L		95	79 - 124	2	20
Bromochloromethane	0.45	U	50.0	57.4		ug/L		115	77 - 122	12	20
Bromodichloromethane	0.44	U	50.0	46.8		ug/L		94	77 - 129	0	20
Bromoform	0.43	U	50.0	47.6		ug/L		95	69 - 135	3	20
Bromomethane	2.5	U	50.0	48.8		ug/L		98	20 - 180	1	20
2-Butanone (MEK)	3.4	U	250	214		ug/L		86	75 - 133	6	20
Carbon disulfide	1.0	U	50.0	51.8		ug/L		104	73 - 127	1	20
Carbon tetrachloride	0.33	U	50.0	49.1		ug/L		98	75 - 130	1	20
Chlorobenzene	0.51	J	50.0	49.1		ug/L		97	80 - 120	1	20
Chloroethane	2.5	U	50.0	54.9		ug/L		110	50 - 151	1	20
Chloroform	0.50	U	50.0	48.9		ug/L		98	79 - 122	2	20
Chloromethane	0.40	U	50.0	54.2		ug/L		108	63 - 126	1	30
2-Chlorotoluene	0.27	U	50.0	48.6		ug/L		97	77 - 121	1	20
4-Chlorotoluene	0.45	U	50.0	49.9		ug/L		100	80 - 120	2	20
cis-1,2-Dichloroethene	13		50.0	61.1		ug/L		97	80 - 122	2	20
cis-1,3-Dichloropropene	0.40	U	50.0	48.6		ug/L		97	80 - 133	0	20
Dibromochloromethane	0.32	U	50.0	45.7		ug/L		91	71 - 136	0	20
1,2-Dibromo-3-Chloropropane	1.1	U	50.0	56.0		ug/L		112	59 - 141	7	20
1,2-Dibromoethane	0.44	U	50.0	47.1		ug/L		94	77 - 131	1	20
Dibromomethane	0.35	U	50.0	46.3		ug/L		93	80 - 122	0	20
1,2-Dichlorobenzene	0.37	U	50.0	50.0		ug/L		100	80 - 120	2	20
1,3-Dichlorobenzene	0.43	U	50.0	49.4		ug/L		99	80 - 120	2	20
1,4-Dichlorobenzene	0.77	J	50.0	49.3		ug/L		97	80 - 120	3	20
Dichlorodifluoromethane	0.60	U	50.0	49.1		ug/L		98	51 - 140	3	40
1,1-Dichloroethane	3.4		50.0	53.9		ug/L		101	80 - 120	3	20
1,2-Dichloroethane	1.6		50.0	46.3		ug/L		89	75 - 130	1	50
1,1-Dichloroethene	0.36	U	50.0	51.7		ug/L		103	74 - 125	3	20
1,2-Dichloropropane	0.67	U	50.0	51.7		ug/L		103	80 - 123	0	20
1,3-Dichloropropane	0.34	U	50.0	48.0		ug/L		96	78 - 127	1	20
2,2-Dichloropropane	0.37	U	50.0	47.8		ug/L		96	72 - 133	1	20
1,1-Dichloropropene	0.34	U	50.0	52.5		ug/L		105	78 - 127	1	20
Ethylbenzene	0.33	U	50.0	50.8		ug/L		102	80 - 120	2	20
Hexachlorobutadiene	2.5	U	50.0	52.7		ug/L		105	77 - 129	3	20
2-Hexanone	2.0	U	250	263		ug/L		105	70 - 141	0	20
Iodomethane	5.0	U	50.0	47.8		ug/L		96	15 - 162	1	30
Isopropylbenzene	0.35	U	50.0	50.0		ug/L		100	80 - 120	1	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: 680-161061-7 MSD

Matrix: Water

Analysis Batch: 549346

Client Sample ID: OLG-G42

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	2.5	U	50.0	51.8		ug/L		104	76 - 129	2	20
4-Methyl-2-pentanone	2.1	U	250	254		ug/L		102	75 - 135	2	20
Methyl tert-butyl ether	0.30	U	50.0	43.4		ug/L		87	74 - 135	4	20
m-Xylene & p-Xylene	0.35	U	50.0	49.7		ug/L		99	80 - 120	2	20
Naphthalene	2.5	U	50.0	65.5		ug/L		131	69 - 148	14	20
n-Butylbenzene	0.47	U	50.0	53.3		ug/L		107	78 - 124	2	20
N-Propylbenzene	0.38	U	50.0	50.0		ug/L		100	80 - 120	2	20
o-Xylene	0.23	U	50.0	49.4		ug/L		99	80 - 120	0	30
p-Isopropyltoluene	0.48	U	50.0	50.6		ug/L		101	80 - 120	2	20
sec-Butylbenzene	0.42	U	50.0	50.8		ug/L		102	76 - 125	2	20
Styrene	0.27	U	50.0	51.1		ug/L		102	80 - 122	2	20
tert-Butylbenzene	0.45	U	50.0	49.5		ug/L		99	80 - 120	2	20
1,1,1,2-Tetrachloroethane	0.37	U	50.0	47.9		ug/L		96	80 - 120	1	20
1,1,2,2-Tetrachloroethane	0.62	U	50.0	52.8		ug/L		106	72 - 128	1	20
Tetrachloroethylene	0.74	U	50.0	47.5		ug/L		95	77 - 123	1	20
Toluene	0.48	U	50.0	49.0		ug/L		98	80 - 122	1	20
trans-1,4-Dichloro-2-butene	0.51	U	50.0	44.3		ug/L		89	55 - 147	1	30
trans-1,2-Dichloroethene	4.9		50.0	57.6		ug/L		105	78 - 123	2	20
trans-1,3-Dichloropropene	0.42	U	50.0	45.5		ug/L		91	74 - 140	0	30
1,2,3-Trichlorobenzene	2.5	U	50.0	64.7		ug/L		129	61 - 151	12	20
1,2,4-Trichlorobenzene	2.5	U	50.0	55.2		ug/L		110	77 - 131	7	20
1,1,1-Trichloroethane	0.37	U	50.0	48.3		ug/L		97	74 - 128	1	20
1,1,2-Trichloroethane	0.33	U	50.0	48.6		ug/L		97	79 - 125	0	20
Trichloroethene	0.82	J	50.0	48.3		ug/L		95	80 - 123	0	20
Trichlorofluoromethane	0.42	U	50.0	46.5		ug/L		93	58 - 145	2	20
1,2,3-Trichloropropane	0.39	U	50.0	50.5		ug/L		101	70 - 132	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	50.0	53.0		ug/L		106	65 - 131	0	20
1,2,4-Trimethylbenzene	0.47	U	50.0	50.2		ug/L		100	80 - 124	2	20
1,3,5-Trimethylbenzene	0.31	U	50.0	50.5		ug/L		101	80 - 120	2	20
Vinyl acetate	0.81	U	100	99.6		ug/L		100	15 - 190	4	20
Vinyl chloride	29		50.0	80.0		ug/L		103	68 - 132	1	20
Xylenes, Total	0.23	U	100	99.1		ug/L		99	80 - 120	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	94		80 - 122
1,2-Dichloroethane-d4 (Surr)	87		73 - 131
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: MB 680-549348/10

Matrix: Water

Analysis Batch: 549348

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/29/18 11:09	1
Acrylonitrile	10	U	20	10	ug/L			11/29/18 11:09	1
Benzene	0.43	U	1.0	0.43	ug/L			11/29/18 11:09	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: MB 680-549348/10

Matrix: Water

Analysis Batch: 549348

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/29/18 11:09	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/29/18 11:09	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/29/18 11:09	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/29/18 11:09	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/29/18 11:09	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/29/18 11:09	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/29/18 11:09	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/29/18 11:09	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/29/18 11:09	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/29/18 11:09	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/29/18 11:09	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/18 11:09	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/29/18 11:09	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/29/18 11:09	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/29/18 11:09	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/29/18 11:09	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/29/18 11:09	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/29/18 11:09	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/29/18 11:09	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/29/18 11:09	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/18 11:09	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/29/18 11:09	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/29/18 11:09	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/29/18 11:09	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/29/18 11:09	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/29/18 11:09	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/29/18 11:09	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/29/18 11:09	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/29/18 11:09	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/29/18 11:09	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/29/18 11:09	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/29/18 11:09	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/29/18 11:09	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/29/18 11:09	1
Iodomethane	5.0	U	10	5.0	ug/L			11/29/18 11:09	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/29/18 11:09	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/29/18 11:09	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/29/18 11:09	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/29/18 11:09	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/29/18 11:09	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/29/18 11:09	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 11:09	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/29/18 11:09	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/29/18 11:09	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/29/18 11:09	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/29/18 11:09	1
Styrene	0.27	U	1.0	0.27	ug/L			11/29/18 11:09	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/29/18 11:09	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: MB 680-549348/10

Matrix: Water

Analysis Batch: 549348

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 11:09	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/29/18 11:09	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/29/18 11:09	1
Toluene	0.48	U	1.0	0.48	ug/L			11/29/18 11:09	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/29/18 11:09	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/29/18 11:09	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/29/18 11:09	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 11:09	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 11:09	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 11:09	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/29/18 11:09	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/29/18 11:09	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/29/18 11:09	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/29/18 11:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/29/18 11:09	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 11:09	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/29/18 11:09	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/29/18 11:09	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/29/18 11:09	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/29/18 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		11/29/18 11:09	1
Dibromofluoromethane (Surr)	102		80 - 122		11/29/18 11:09	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		11/29/18 11:09	1
Toluene-d8 (Surr)	106		80 - 120		11/29/18 11:09	1

Lab Sample ID: LCS 680-549348/4

Matrix: Water

Analysis Batch: 549348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	234		ug/L		93	70 - 135
Acrylonitrile	500	442		ug/L		88	80 - 123
Benzene	50.0	48.1		ug/L		96	80 - 120
Bromobenzene	50.0	53.5		ug/L		107	80 - 121
Bromochloromethane	50.0	48.0		ug/L		96	80 - 120
Bromodichloromethane	50.0	46.3		ug/L		93	80 - 120
Bromoform	50.0	42.0		ug/L		84	74 - 126
Bromomethane	50.0	62.1		ug/L		124	62 - 130
2-Butanone (MEK)	250	214		ug/L		86	80 - 131
Carbon disulfide	50.0	48.5		ug/L		97	80 - 120
Carbon tetrachloride	50.0	48.5		ug/L		97	76 - 123
Chlorobenzene	50.0	52.6		ug/L		105	80 - 120
Chloroethane	50.0	47.3		ug/L		95	66 - 135
Chloroform	50.0	48.1		ug/L		96	80 - 120
Chloromethane	50.0	50.8		ug/L		102	69 - 131
2-Chlorotoluene	50.0	53.0		ug/L		106	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCS 680-549348/4

Matrix: Water

Analysis Batch: 549348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	52.9		ug/L		106	80 - 120
cis-1,2-Dichloroethene	50.0	45.0		ug/L		90	80 - 120
cis-1,3-Dichloropropene	50.0	46.4		ug/L		93	80 - 120
Dibromochloromethane	50.0	47.0		ug/L		94	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	46.2		ug/L		92	71 - 134
1,2-Dibromoethane	50.0	53.0		ug/L		106	80 - 120
Dibromomethane	50.0	49.1		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120
1,3-Dichlorobenzene	50.0	54.0		ug/L		108	80 - 120
1,4-Dichlorobenzene	50.0	51.7		ug/L		103	80 - 120
Dichlorodifluoromethane	50.0	64.7		ug/L		129	47 - 155
1,1-Dichloroethane	50.0	46.9		ug/L		94	80 - 120
1,2-Dichloroethane	50.0	47.2		ug/L		94	80 - 120
1,1-Dichloroethene	50.0	50.3		ug/L		101	76 - 120
1,2-Dichloropropane	50.0	46.3		ug/L		93	80 - 120
1,3-Dichloropropane	50.0	49.2		ug/L		98	80 - 120
2,2-Dichloropropane	50.0	52.5		ug/L		105	76 - 126
1,1-Dichloropropene	50.0	49.5		ug/L		99	80 - 120
Ethylbenzene	50.0	53.7		ug/L		107	80 - 120
Hexachlorobutadiene	50.0	46.0		ug/L		92	60 - 140
2-Hexanone	250	232		ug/L		93	74 - 127
Iodomethane	50.0	50.7		ug/L		101	52 - 142
Isopropylbenzene	50.0	54.7		ug/L		109	80 - 120
Methylene Chloride	50.0	49.1		ug/L		98	80 - 120
4-Methyl-2-pentanone	250	234		ug/L		93	76 - 124
Methyl tert-butyl ether	50.0	47.5		ug/L		95	80 - 120
m-Xylene & p-Xylene	50.0	53.6		ug/L		107	80 - 120
Naphthalene	50.0	52.4		ug/L		105	59 - 140
n-Butylbenzene	50.0	51.0		ug/L		102	80 - 120
N-Propylbenzene	50.0	53.8		ug/L		108	80 - 120
o-Xylene	50.0	53.2		ug/L		106	80 - 120
p-Isopropyltoluene	50.0	50.2		ug/L		100	80 - 120
sec-Butylbenzene	50.0	54.4		ug/L		109	80 - 120
Styrene	50.0	55.5		ug/L		111	80 - 120
tert-Butylbenzene	50.0	53.5		ug/L		107	80 - 121
1,1,1,2-Tetrachloroethane	50.0	56.3		ug/L		113	80 - 121
1,1,2,2-Tetrachloroethane	50.0	52.9		ug/L		106	80 - 120
Tetrachloroethylene	50.0	53.9		ug/L		108	80 - 121
Toluene	50.0	47.9		ug/L		96	80 - 113
trans-1,4-Dichloro-2-butene	50.0	52.1		ug/L		104	68 - 125
trans-1,2-Dichloroethene	50.0	47.2		ug/L		94	80 - 120
trans-1,3-Dichloropropene	50.0	48.4		ug/L		97	80 - 120
1,2,3-Trichlorobenzene	50.0	45.5		ug/L		91	61 - 141
1,2,4-Trichlorobenzene	50.0	46.9		ug/L		94	68 - 128
1,1,1-Trichloroethane	50.0	49.3		ug/L		99	80 - 120
1,1,2-Trichloroethane	50.0	49.4		ug/L		99	80 - 120
Trichloroethene	50.0	50.4		ug/L		101	80 - 120
Trichlorofluoromethane	50.0	55.1		ug/L		110	60 - 141

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCS 680-549348/4

Matrix: Water

Analysis Batch: 549348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	57.3		ug/L		115	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.1		ug/L		108	79 - 124
1,2,4-Trimethylbenzene	50.0	50.9		ug/L		102	80 - 120
1,3,5-Trimethylbenzene	50.0	52.2		ug/L		104	80 - 120
Vinyl acetate	100	101		ug/L		101	67 - 135
Vinyl chloride	50.0	52.0		ug/L		104	71 - 128
Xylenes, Total	100	107		ug/L		107	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	98		80 - 122
1,2-Dichloroethane-d4 (Surr)	92		73 - 131
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: LCSD 680-549348/5

Matrix: Water

Analysis Batch: 549348

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	220		ug/L		88	70 - 135	6	30
Acrylonitrile	500	416		ug/L		83	80 - 123	6	20
Benzene	50.0	47.6		ug/L		95	80 - 120	1	20
Bromobenzene	50.0	53.4		ug/L		107	80 - 121	0	20
Bromochloromethane	50.0	46.7		ug/L		93	80 - 120	3	20
Bromodichloromethane	50.0	45.9		ug/L		92	80 - 120	1	20
Bromoform	50.0	42.0		ug/L		84	74 - 126	0	20
Bromomethane	50.0	64.0		ug/L		128	62 - 130	3	20
2-Butanone (MEK)	250	215		ug/L		86	80 - 131	1	20
Carbon disulfide	50.0	48.4		ug/L		97	80 - 120	0	20
Carbon tetrachloride	50.0	48.9		ug/L		98	76 - 123	1	20
Chlorobenzene	50.0	52.7		ug/L		105	80 - 120	0	20
Chloroethane	50.0	47.5		ug/L		95	66 - 135	0	20
Chloroform	50.0	48.2		ug/L		96	80 - 120	0	20
Chloromethane	50.0	50.8		ug/L		102	69 - 131	0	30
2-Chlorotoluene	50.0	54.3		ug/L		109	80 - 120	2	20
4-Chlorotoluene	50.0	54.0		ug/L		108	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	45.3		ug/L		91	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	45.3		ug/L		91	80 - 120	2	20
Dibromochloromethane	50.0	46.9		ug/L		94	80 - 121	0	20
1,2-Dibromo-3-Chloropropane	50.0	47.7		ug/L		95	71 - 134	3	20
1,2-Dibromoethane	50.0	50.7		ug/L		101	80 - 120	5	20
Dibromomethane	50.0	48.6		ug/L		97	80 - 120	1	20
1,2-Dichlorobenzene	50.0	51.1		ug/L		102	80 - 120	1	20
1,3-Dichlorobenzene	50.0	54.4		ug/L		109	80 - 120	1	20
1,4-Dichlorobenzene	50.0	52.8		ug/L		106	80 - 120	2	20
Dichlorodifluoromethane	50.0	65.5		ug/L		131	47 - 155	1	40
1,1-Dichloroethane	50.0	47.0		ug/L		94	80 - 120	0	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549348/5

Matrix: Water

Analysis Batch: 549348

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	45.6		ug/L		91	80 - 120	4	50
1,1-Dichloroethene	50.0	51.8		ug/L		104	76 - 120	3	20
1,2-Dichloropropane	50.0	44.9		ug/L		90	80 - 120	3	20
1,3-Dichloropropane	50.0	48.5		ug/L		97	80 - 120	2	20
2,2-Dichloropropane	50.0	53.7		ug/L		107	76 - 126	2	20
1,1-Dichloropropene	50.0	51.3		ug/L		103	80 - 120	4	20
Ethylbenzene	50.0	54.5		ug/L		109	80 - 120	1	20
Hexachlorobutadiene	50.0	47.6		ug/L		95	60 - 140	3	20
2-Hexanone	250	229		ug/L		91	74 - 127	1	20
Iodomethane	50.0	50.8		ug/L		102	52 - 142	0	30
Isopropylbenzene	50.0	56.0		ug/L		112	80 - 120	2	20
Methylene Chloride	50.0	46.5		ug/L		93	80 - 120	5	20
4-Methyl-2-pentanone	250	233		ug/L		93	76 - 124	0	20
Methyl tert-butyl ether	50.0	44.4		ug/L		89	80 - 120	7	20
m-Xylene & p-Xylene	50.0	54.2		ug/L		108	80 - 120	1	20
Naphthalene	50.0	52.0		ug/L		104	59 - 140	1	20
n-Butylbenzene	50.0	52.1		ug/L		104	80 - 120	2	20
N-Propylbenzene	50.0	55.3		ug/L		111	80 - 120	3	20
o-Xylene	50.0	53.0		ug/L		106	80 - 120	0	30
p-Isopropyltoluene	50.0	51.8		ug/L		104	80 - 120	3	20
sec-Butylbenzene	50.0	55.9		ug/L		112	80 - 120	3	20
Styrene	50.0	55.7		ug/L		111	80 - 120	0	20
tert-Butylbenzene	50.0	54.8		ug/L		110	80 - 121	2	20
1,1,1,2-Tetrachloroethane	50.0	57.1		ug/L		114	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	53.8		ug/L		108	80 - 120	2	20
Tetrachloroethylene	50.0	54.1		ug/L		108	80 - 121	0	20
Toluene	50.0	48.7		ug/L		97	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	51.4		ug/L		103	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120	7	20
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	80 - 120	2	30
1,2,3-Trichlorobenzene	50.0	45.8		ug/L		92	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	46.9		ug/L		94	68 - 128	0	20
1,1,1-Trichloroethane	50.0	49.6		ug/L		99	80 - 120	1	20
1,1,2-Trichloroethane	50.0	47.9		ug/L		96	80 - 120	3	20
Trichloroethene	50.0	50.9		ug/L		102	80 - 120	1	20
Trichlorofluoromethane	50.0	56.3		ug/L		113	60 - 141	2	20
1,2,3-Trichloropropane	50.0	56.0		ug/L		112	80 - 123	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.1		ug/L		110	79 - 124	2	20
1,2,4-Trimethylbenzene	50.0	51.8		ug/L		104	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	53.1		ug/L		106	80 - 120	2	20
Vinyl acetate	100	107		ug/L		107	67 - 135	6	20
Vinyl chloride	50.0	52.6		ug/L		105	71 - 128	1	20
Xylenes, Total	100	107		ug/L		107	80 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	97		80 - 122

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549348/5

Matrix: Water

Analysis Batch: 549348

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	88		73 - 131
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: MB 680-549349/9

Matrix: Water

Analysis Batch: 549349

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/29/18 11:28	1
Acrylonitrile	10	U	20	10	ug/L			11/29/18 11:28	1
Benzene	0.43	U	1.0	0.43	ug/L			11/29/18 11:28	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/29/18 11:28	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/29/18 11:28	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/29/18 11:28	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/29/18 11:28	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/29/18 11:28	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/29/18 11:28	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/29/18 11:28	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/29/18 11:28	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/29/18 11:28	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/29/18 11:28	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/29/18 11:28	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/18 11:28	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/29/18 11:28	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/29/18 11:28	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/29/18 11:28	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/29/18 11:28	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/29/18 11:28	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/29/18 11:28	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/29/18 11:28	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/29/18 11:28	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/18 11:28	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/29/18 11:28	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/29/18 11:28	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/29/18 11:28	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/29/18 11:28	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/29/18 11:28	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/29/18 11:28	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/29/18 11:28	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/29/18 11:28	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/29/18 11:28	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/29/18 11:28	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/29/18 11:28	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/29/18 11:28	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/29/18 11:28	1
Iodomethane	5.0	U	10	5.0	ug/L			11/29/18 11:28	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/29/18 11:28	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/29/18 11:28	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: MB 680-549349/9

Matrix: Water

Analysis Batch: 549349

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/29/18 11:28	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/29/18 11:28	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/29/18 11:28	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/29/18 11:28	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 11:28	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/29/18 11:28	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/29/18 11:28	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/29/18 11:28	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/29/18 11:28	1
Styrene	0.27	U	1.0	0.27	ug/L			11/29/18 11:28	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/29/18 11:28	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 11:28	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/29/18 11:28	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/29/18 11:28	1
Toluene	0.48	U	1.0	0.48	ug/L			11/29/18 11:28	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/29/18 11:28	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/29/18 11:28	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/29/18 11:28	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 11:28	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 11:28	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 11:28	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/29/18 11:28	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/29/18 11:28	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/29/18 11:28	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/29/18 11:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/29/18 11:28	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 11:28	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/29/18 11:28	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/29/18 11:28	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/29/18 11:28	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/29/18 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		80 - 120		11/29/18 11:28	1
Dibromofluoromethane (Surr)	99		80 - 122		11/29/18 11:28	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		11/29/18 11:28	1
Toluene-d8 (Surr)	100		80 - 120		11/29/18 11:28	1

Lab Sample ID: LCS 680-549349/3

Matrix: Water

Analysis Batch: 549349

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	255		ug/L		102	70 - 135
Acrylonitrile	500	494		ug/L		99	80 - 123
Benzene	50.0	50.1		ug/L		100	80 - 120
Bromobenzene	50.0	55.2		ug/L		110	80 - 121
Bromochloromethane	50.0	53.0		ug/L		106	80 - 120

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCS 680-549349/3

Matrix: Water

Analysis Batch: 549349

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	51.0		ug/L		102	80 - 120
Bromoform	50.0	54.6		ug/L		109	74 - 126
Bromomethane	50.0	37.4	E	ug/L		75	62 - 130
2-Butanone (MEK)	250	252		ug/L		101	80 - 131
Carbon disulfide	50.0	52.3		ug/L		105	80 - 120
Carbon tetrachloride	50.0	54.4		ug/L		109	76 - 123
Chlorobenzene	50.0	52.0		ug/L		104	80 - 120
Chloroethane	50.0	60.7		ug/L		121	66 - 135
Chloroform	50.0	49.9		ug/L		100	80 - 120
Chloromethane	50.0	53.5		ug/L		107	69 - 131
2-Chlorotoluene	50.0	50.3		ug/L		101	80 - 120
4-Chlorotoluene	50.0	52.5		ug/L		105	80 - 120
cis-1,2-Dichloroethene	50.0	47.9		ug/L		96	80 - 120
cis-1,3-Dichloropropene	50.0	49.4		ug/L		99	80 - 120
Dibromochloromethane	50.0	51.9		ug/L		104	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	49.6		ug/L		99	71 - 134
1,2-Dibromoethane	50.0	52.1		ug/L		104	80 - 120
Dibromomethane	50.0	52.9		ug/L		106	80 - 120
1,2-Dichlorobenzene	50.0	50.3		ug/L		101	80 - 120
1,3-Dichlorobenzene	50.0	51.7		ug/L		103	80 - 120
1,4-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120
Dichlorodifluoromethane	50.0	57.8		ug/L		116	47 - 155
1,1-Dichloroethane	50.0	49.5		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	53.3		ug/L		107	80 - 120
1,1-Dichloroethene	50.0	49.5		ug/L		99	76 - 120
1,2-Dichloropropane	50.0	49.2		ug/L		98	80 - 120
1,3-Dichloropropane	50.0	51.1		ug/L		102	80 - 120
2,2-Dichloropropane	50.0	54.2		ug/L		108	76 - 126
1,1-Dichloropropene	50.0	50.8		ug/L		102	80 - 120
Ethylbenzene	50.0	52.1		ug/L		104	80 - 120
Hexachlorobutadiene	50.0	48.0		ug/L		96	60 - 140
2-Hexanone	250	250		ug/L		100	74 - 127
Iodomethane	50.0	54.5		ug/L		109	52 - 142
Isopropylbenzene	50.0	52.6		ug/L		105	80 - 120
Methylene Chloride	50.0	48.5		ug/L		97	80 - 120
4-Methyl-2-pentanone	250	246		ug/L		98	76 - 124
Methyl tert-butyl ether	50.0	50.4		ug/L		101	80 - 120
m-Xylene & p-Xylene	50.0	52.2		ug/L		104	80 - 120
Naphthalene	50.0	45.9		ug/L		92	59 - 140
n-Butylbenzene	50.0	45.3		ug/L		91	80 - 120
N-Propylbenzene	50.0	51.9		ug/L		104	80 - 120
o-Xylene	50.0	52.0		ug/L		104	80 - 120
p-Isopropyltoluene	50.0	46.6		ug/L		93	80 - 120
sec-Butylbenzene	50.0	49.2		ug/L		98	80 - 120
Styrene	50.0	57.1		ug/L		114	80 - 120
tert-Butylbenzene	50.0	51.5		ug/L		103	80 - 121
1,1,1,2-Tetrachloroethane	50.0	53.6		ug/L		107	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/L		100	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCS 680-549349/3

Matrix: Water

Analysis Batch: 549349

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethylene	50.0	56.3		ug/L		113	80 - 121
Toluene	50.0	51.1		ug/L		102	80 - 113
trans-1,4-Dichloro-2-butene	50.0	46.2		ug/L		92	68 - 125
trans-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120
trans-1,3-Dichloropropene	50.0	53.0		ug/L		106	80 - 120
1,2,3-Trichlorobenzene	50.0	47.3		ug/L		95	61 - 141
1,2,4-Trichlorobenzene	50.0	49.5		ug/L		99	68 - 128
1,1,1-Trichloroethane	50.0	50.7		ug/L		101	80 - 120
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	80 - 120
Trichloroethene	50.0	47.2		ug/L		94	80 - 120
Trichlorofluoromethane	50.0	58.2		ug/L		116	60 - 141
1,2,3-Trichloropropane	50.0	51.7		ug/L		103	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.7		ug/L		101	79 - 124
1,2,4-Trimethylbenzene	50.0	51.4		ug/L		103	80 - 120
1,3,5-Trimethylbenzene	50.0	52.2		ug/L		104	80 - 120
Vinyl acetate	100	110		ug/L		110	67 - 135
Vinyl chloride	50.0	53.7		ug/L		107	71 - 128
Xylenes, Total	100	104		ug/L		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	99		80 - 122
1,2-Dichloroethane-d4 (Surr)	100		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 680-549349/4

Matrix: Water

Analysis Batch: 549349

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	240		ug/L		96	70 - 135	6	30
Acrylonitrile	500	474		ug/L		95	80 - 123	4	20
Benzene	50.0	50.6		ug/L		101	80 - 120	1	20
Bromobenzene	50.0	55.7		ug/L		111	80 - 121	1	20
Bromochloromethane	50.0	52.5		ug/L		105	80 - 120	1	20
Bromodichloromethane	50.0	49.7		ug/L		99	80 - 120	3	20
Bromoform	50.0	52.9		ug/L		106	74 - 126	3	20
Bromomethane	50.0	39.6	E	ug/L		79	62 - 130	6	20
2-Butanone (MEK)	250	237		ug/L		95	80 - 131	6	20
Carbon disulfide	50.0	54.2		ug/L		108	80 - 120	4	20
Carbon tetrachloride	50.0	54.9		ug/L		110	76 - 123	1	20
Chlorobenzene	50.0	53.1		ug/L		106	80 - 120	2	20
Chloroethane	50.0	61.5		ug/L		123	66 - 135	1	20
Chloroform	50.0	48.6		ug/L		97	80 - 120	3	20
Chloromethane	50.0	54.7		ug/L		109	69 - 131	2	30
2-Chlorotoluene	50.0	51.7		ug/L		103	80 - 120	3	20
4-Chlorotoluene	50.0	52.7		ug/L		105	80 - 120	0	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549349/4

Matrix: Water

Analysis Batch: 549349

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
cis-1,2-Dichloroethene	50.0	46.8		ug/L		94	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	48.6		ug/L		97	80 - 120	2	20
Dibromochloromethane	50.0	51.3		ug/L		103	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	47.9		ug/L		96	71 - 134	3	20
1,2-Dibromoethane	50.0	50.8		ug/L		102	80 - 120	3	20
Dibromomethane	50.0	52.0		ug/L		104	80 - 120	2	20
1,2-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 120	0	20
1,3-Dichlorobenzene	50.0	51.8		ug/L		104	80 - 120	0	20
1,4-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120	0	20
Dichlorodifluoromethane	50.0	60.7		ug/L		121	47 - 155	5	40
1,1-Dichloroethane	50.0	49.4		ug/L		99	80 - 120	0	20
1,2-Dichloroethane	50.0	52.6		ug/L		105	80 - 120	1	50
1,1-Dichloroethene	50.0	51.7		ug/L		103	76 - 120	4	20
1,2-Dichloropropane	50.0	48.0		ug/L		96	80 - 120	2	20
1,3-Dichloropropane	50.0	49.7		ug/L		99	80 - 120	3	20
2,2-Dichloropropane	50.0	55.6		ug/L		111	76 - 126	3	20
1,1-Dichloropropene	50.0	52.2		ug/L		104	80 - 120	3	20
Ethylbenzene	50.0	54.1		ug/L		108	80 - 120	4	20
Hexachlorobutadiene	50.0	52.1		ug/L		104	60 - 140	8	20
2-Hexanone	250	235		ug/L		94	74 - 127	6	20
Iodomethane	50.0	55.4		ug/L		111	52 - 142	2	30
Isopropylbenzene	50.0	53.6		ug/L		107	80 - 120	2	20
Methylene Chloride	50.0	46.5		ug/L		93	80 - 120	4	20
4-Methyl-2-pentanone	250	233		ug/L		93	76 - 124	6	20
Methyl tert-butyl ether	50.0	48.8		ug/L		98	80 - 120	3	20
m-Xylene & p-Xylene	50.0	52.8		ug/L		106	80 - 120	1	20
Naphthalene	50.0	46.3		ug/L		93	59 - 140	1	20
n-Butylbenzene	50.0	46.6		ug/L		93	80 - 120	3	20
N-Propylbenzene	50.0	53.5		ug/L		107	80 - 120	3	20
o-Xylene	50.0	52.3		ug/L		105	80 - 120	0	30
p-Isopropyltoluene	50.0	48.1		ug/L		96	80 - 120	3	20
sec-Butylbenzene	50.0	51.7		ug/L		103	80 - 120	5	20
Styrene	50.0	56.5		ug/L		113	80 - 120	1	20
tert-Butylbenzene	50.0	53.5		ug/L		107	80 - 121	4	20
1,1,1,2-Tetrachloroethane	50.0	52.9		ug/L		106	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	80 - 120	1	20
Tetrachloroethylene	50.0	57.6		ug/L		115	80 - 121	2	20
Toluene	50.0	51.2		ug/L		102	80 - 113	0	20
trans-1,4-Dichloro-2-butene	50.0	45.6		ug/L		91	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	51.6		ug/L		103	80 - 120	3	30
1,2,3-Trichlorobenzene	50.0	47.0		ug/L		94	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	49.8		ug/L		100	68 - 128	1	20
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	80 - 120	1	20
1,1,2-Trichloroethane	50.0	48.8		ug/L		98	80 - 120	2	20
Trichloroethene	50.0	49.5		ug/L		99	80 - 120	5	20
Trichlorofluoromethane	50.0	60.8		ug/L		122	60 - 141	4	20
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	80 - 123	2	30

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549349/4

Matrix: Water

Analysis Batch: 549349

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.6		ug/L		107	79 - 124	6	20
1,2,4-Trimethylbenzene	50.0	52.4		ug/L		105	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	53.6		ug/L		107	80 - 120	3	20
Vinyl acetate	100	105		ug/L		105	67 - 135	5	20
Vinyl chloride	50.0	55.1		ug/L		110	71 - 128	3	20
Xylenes, Total	100	105		ug/L		105	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	96		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 680-549473/10

Matrix: Water

Analysis Batch: 549473

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/29/18 23:22	1
Acrylonitrile	10	U	20	10	ug/L			11/29/18 23:22	1
Benzene	0.43	U	1.0	0.43	ug/L			11/29/18 23:22	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/29/18 23:22	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/29/18 23:22	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/29/18 23:22	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/29/18 23:22	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/29/18 23:22	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/29/18 23:22	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/29/18 23:22	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/29/18 23:22	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/29/18 23:22	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/29/18 23:22	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/29/18 23:22	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/29/18 23:22	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/29/18 23:22	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/29/18 23:22	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/29/18 23:22	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/29/18 23:22	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/29/18 23:22	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/29/18 23:22	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/29/18 23:22	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/29/18 23:22	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/29/18 23:22	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/29/18 23:22	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/29/18 23:22	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/29/18 23:22	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/29/18 23:22	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/29/18 23:22	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: MB 680-549473/10

Matrix: Water

Analysis Batch: 549473

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/29/18 23:22	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/29/18 23:22	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/29/18 23:22	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/29/18 23:22	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/29/18 23:22	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/29/18 23:22	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/29/18 23:22	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/29/18 23:22	1
Iodomethane	5.0	U	10	5.0	ug/L			11/29/18 23:22	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/29/18 23:22	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/29/18 23:22	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/29/18 23:22	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/29/18 23:22	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/29/18 23:22	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/29/18 23:22	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 23:22	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/29/18 23:22	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/29/18 23:22	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/29/18 23:22	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/29/18 23:22	1
Styrene	0.27	U	1.0	0.27	ug/L			11/29/18 23:22	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/29/18 23:22	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 23:22	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/29/18 23:22	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/29/18 23:22	1
Toluene	0.48	U	1.0	0.48	ug/L			11/29/18 23:22	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/29/18 23:22	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/29/18 23:22	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/29/18 23:22	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 23:22	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/29/18 23:22	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/29/18 23:22	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/29/18 23:22	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/29/18 23:22	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/29/18 23:22	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/29/18 23:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/29/18 23:22	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/29/18 23:22	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/29/18 23:22	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/29/18 23:22	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/29/18 23:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/29/18 23:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		11/29/18 23:22	1
Dibromofluoromethane (Surr)	104		80 - 122		11/29/18 23:22	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		11/29/18 23:22	1
Toluene-d8 (Surr)	102		80 - 120		11/29/18 23:22	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Lab Sample ID: LCS 680-549473/4

Matrix: Water

Analysis Batch: 549473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	289		ug/L		116	70 - 135
Acrylonitrile	500	622	*	ug/L		124	80 - 123
Benzene	50.0	57.8		ug/L		116	80 - 120
Bromobenzene	50.0	54.4		ug/L		109	80 - 121
Bromochloromethane	50.0	59.4		ug/L		119	80 - 120
Bromodichloromethane	50.0	55.4		ug/L		111	80 - 120
Bromoform	50.0	55.9		ug/L		112	74 - 126
Bromomethane	50.0	57.8		ug/L		116	62 - 130
2-Butanone (MEK)	250	262		ug/L		105	80 - 131
Carbon disulfide	50.0	56.1		ug/L		112	80 - 120
Carbon tetrachloride	50.0	53.3		ug/L		107	76 - 123
Chlorobenzene	50.0	54.3		ug/L		109	80 - 120
Chloroethane	50.0	59.1		ug/L		118	66 - 135
Chloroform	50.0	55.9		ug/L		112	80 - 120
Chloromethane	50.0	59.0		ug/L		118	69 - 131
2-Chlorotoluene	50.0	55.0		ug/L		110	80 - 120
4-Chlorotoluene	50.0	55.8		ug/L		112	80 - 120
cis-1,2-Dichloroethene	50.0	56.1		ug/L		112	80 - 120
cis-1,3-Dichloropropene	50.0	58.6		ug/L		117	80 - 120
Dibromochloromethane	50.0	55.3		ug/L		111	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	64.6		ug/L		129	71 - 134
1,2-Dibromoethane	50.0	58.0		ug/L		116	80 - 120
Dibromomethane	50.0	55.1		ug/L		110	80 - 120
1,2-Dichlorobenzene	50.0	57.1		ug/L		114	80 - 120
1,3-Dichlorobenzene	50.0	55.1		ug/L		110	80 - 120
1,4-Dichlorobenzene	50.0	54.4		ug/L		109	80 - 120
Dichlorodifluoromethane	50.0	51.6		ug/L		103	47 - 155
1,1-Dichloroethane	50.0	57.9		ug/L		116	80 - 120
1,2-Dichloroethane	50.0	53.7		ug/L		107	80 - 120
1,1-Dichloroethene	50.0	55.9		ug/L		112	76 - 120
1,2-Dichloropropane	50.0	59.9		ug/L		120	80 - 120
1,3-Dichloropropane	50.0	57.9		ug/L		116	80 - 120
2,2-Dichloropropane	50.0	55.2		ug/L		110	76 - 126
1,1-Dichloropropene	50.0	57.3		ug/L		115	80 - 120
Ethylbenzene	50.0	55.2		ug/L		110	80 - 120
Hexachlorobutadiene	50.0	57.8		ug/L		116	60 - 140
2-Hexanone	250	325	*	ug/L		130	74 - 127
Iodomethane	50.0	55.0		ug/L		110	52 - 142
Isopropylbenzene	50.0	54.9		ug/L		110	80 - 120
Methylene Chloride	50.0	60.7	*	ug/L		121	80 - 120
4-Methyl-2-pentanone	250	308		ug/L		123	76 - 124
Methyl tert-butyl ether	50.0	53.5		ug/L		107	80 - 120
m-Xylene & p-Xylene	50.0	54.7		ug/L		109	80 - 120
Naphthalene	50.0	76.7	*	ug/L		153	59 - 140
n-Butylbenzene	50.0	57.0		ug/L		114	80 - 120
N-Propylbenzene	50.0	54.4		ug/L		109	80 - 120
o-Xylene	50.0	55.4		ug/L		111	80 - 120
p-Isopropyltoluene	50.0	54.4		ug/L		109	80 - 120
sec-Butylbenzene	50.0	55.3		ug/L		111	80 - 120
Styrene	50.0	58.0		ug/L		116	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCS 680-549473/4

Matrix: Water

Analysis Batch: 549473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	50.0	54.0		ug/L		108	80 - 121
1,1,1,2-Tetrachloroethane	50.0	54.8		ug/L		110	80 - 121
1,1,2,2-Tetrachloroethane	50.0	61.5	*	ug/L		123	80 - 120
Tetrachloroethylene	50.0	53.2		ug/L		106	80 - 121
Toluene	50.0	56.3		ug/L		113	80 - 113
trans-1,4-Dichloro-2-butene	50.0	50.9		ug/L		102	68 - 125
trans-1,2-Dichloroethene	50.0	58.0		ug/L		116	80 - 120
trans-1,3-Dichloropropene	50.0	55.1		ug/L		110	80 - 120
1,2,3-Trichlorobenzene	50.0	77.0	*	ug/L		154	61 - 141
1,2,4-Trichlorobenzene	50.0	64.3	*	ug/L		129	68 - 128
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	80 - 120
1,1,2-Trichloroethane	50.0	58.4		ug/L		117	80 - 120
Trichloroethene	50.0	54.1		ug/L		108	80 - 120
Trichlorofluoromethane	50.0	49.8		ug/L		100	60 - 141
1,2,3-Trichloropropane	50.0	57.3		ug/L		115	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.3		ug/L		111	79 - 124
1,2,4-Trimethylbenzene	50.0	56.2		ug/L		112	80 - 120
1,3,5-Trimethylbenzene	50.0	55.9		ug/L		112	80 - 120
Vinyl acetate	100	120		ug/L		120	67 - 135
Vinyl chloride	50.0	58.9		ug/L		118	71 - 128
Xylenes, Total	100	110		ug/L		110	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	109		80 - 122
1,2-Dichloroethane-d4 (Surr)	104		73 - 131
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: LCSD 680-549473/5

Matrix: Water

Analysis Batch: 549473

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	277		ug/L		111	70 - 135	4	30
Acrylonitrile	500	596		ug/L		119	80 - 123	4	20
Benzene	50.0	54.6		ug/L		109	80 - 120	6	20
Bromobenzene	50.0	52.6		ug/L		105	80 - 121	3	20
Bromochloromethane	50.0	56.0		ug/L		112	80 - 120	6	20
Bromodichloromethane	50.0	52.8		ug/L		106	80 - 120	5	20
Bromoform	50.0	55.2		ug/L		110	74 - 126	1	20
Bromomethane	50.0	53.9		ug/L		108	62 - 130	7	20
2-Butanone (MEK)	250	240		ug/L		96	80 - 131	9	20
Carbon disulfide	50.0	53.4		ug/L		107	80 - 120	5	20
Carbon tetrachloride	50.0	49.2		ug/L		98	76 - 123	8	20
Chlorobenzene	50.0	52.8		ug/L		106	80 - 120	3	20
Chloroethane	50.0	55.5		ug/L		111	66 - 135	6	20
Chloroform	50.0	53.4		ug/L		107	80 - 120	5	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549473/5

Matrix: Water

Analysis Batch: 549473

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
Chloromethane	50.0	55.6		ug/L		111	69 - 131	6	30
2-Chlorotoluene	50.0	53.2		ug/L		106	80 - 120	3	20
4-Chlorotoluene	50.0	53.8		ug/L		108	80 - 120	4	20
cis-1,2-Dichloroethene	50.0	53.7		ug/L		107	80 - 120	4	20
cis-1,3-Dichloropropene	50.0	55.8		ug/L		112	80 - 120	5	20
Dibromochloromethane	50.0	53.5		ug/L		107	80 - 121	3	20
1,2-Dibromo-3-Chloropropane	50.0	64.9		ug/L		130	71 - 134	0	20
1,2-Dibromoethane	50.0	55.5		ug/L		111	80 - 120	4	20
Dibromomethane	50.0	53.5		ug/L		107	80 - 120	3	20
1,2-Dichlorobenzene	50.0	56.0		ug/L		112	80 - 120	2	20
1,3-Dichlorobenzene	50.0	54.7		ug/L		109	80 - 120	1	20
1,4-Dichlorobenzene	50.0	53.3		ug/L		107	80 - 120	2	20
Dichlorodifluoromethane	50.0	47.9		ug/L		96	47 - 155	8	40
1,1-Dichloroethane	50.0	55.1		ug/L		110	80 - 120	5	20
1,2-Dichloroethane	50.0	51.1		ug/L		102	80 - 120	5	50
1,1-Dichloroethene	50.0	52.4		ug/L		105	76 - 120	6	20
1,2-Dichloropropane	50.0	56.8		ug/L		114	80 - 120	5	20
1,3-Dichloropropane	50.0	55.3		ug/L		111	80 - 120	5	20
2,2-Dichloropropane	50.0	51.9		ug/L		104	76 - 126	6	20
1,1-Dichloropropene	50.0	53.1		ug/L		106	80 - 120	8	20
Ethylbenzene	50.0	53.8		ug/L		108	80 - 120	3	20
Hexachlorobutadiene	50.0	56.0		ug/L		112	60 - 140	3	20
2-Hexanone	250	308		ug/L		123	74 - 127	5	20
Iodomethane	50.0	53.3		ug/L		107	52 - 142	3	30
Isopropylbenzene	50.0	53.0		ug/L		106	80 - 120	4	20
Methylene Chloride	50.0	57.4		ug/L		115	80 - 120	6	20
4-Methyl-2-pentanone	250	291		ug/L		117	76 - 124	5	20
Methyl tert-butyl ether	50.0	49.0		ug/L		98	80 - 120	9	20
m-Xylene & p-Xylene	50.0	53.0		ug/L		106	80 - 120	3	20
Naphthalene	50.0	73.5 *		ug/L		147	59 - 140	4	20
n-Butylbenzene	50.0	55.6		ug/L		111	80 - 120	3	20
N-Propylbenzene	50.0	52.4		ug/L		105	80 - 120	4	20
o-Xylene	50.0	54.0		ug/L		108	80 - 120	2	30
p-Isopropyltoluene	50.0	53.3		ug/L		107	80 - 120	2	20
sec-Butylbenzene	50.0	53.2		ug/L		106	80 - 120	4	20
Styrene	50.0	56.4		ug/L		113	80 - 120	3	20
tert-Butylbenzene	50.0	52.4		ug/L		105	80 - 121	3	20
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/L		108	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	58.6		ug/L		117	80 - 120	5	20
Tetrachloroethylene	50.0	50.2		ug/L		100	80 - 121	6	20
Toluene	50.0	53.4		ug/L		107	80 - 113	5	20
trans-1,4-Dichloro-2-butene	50.0	53.4		ug/L		107	68 - 125	5	30
trans-1,2-Dichloroethene	50.0	55.5		ug/L		111	80 - 120	4	20
trans-1,3-Dichloropropene	50.0	52.9		ug/L		106	80 - 120	4	30
1,2,3-Trichlorobenzene	50.0	73.2 *		ug/L		146	61 - 141	5	20
1,2,4-Trichlorobenzene	50.0	62.3		ug/L		125	68 - 128	3	20
1,1,1-Trichloroethane	50.0	50.3		ug/L		101	80 - 120	5	20
1,1,2-Trichloroethane	50.0	55.7		ug/L		111	80 - 120	5	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549473/5

Matrix: Water

Analysis Batch: 549473

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
Trichloroethene	50.0	51.4		ug/L		103	80 - 120	5	20
Trichlorofluoromethane	50.0	47.2		ug/L		94	60 - 141	5	20
1,2,3-Trichloropropane	50.0	57.9		ug/L		116	80 - 123	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.4		ug/L		101	79 - 124	9	20
1,2,4-Trimethylbenzene	50.0	54.6		ug/L		109	80 - 120	3	20
1,3,5-Trimethylbenzene	50.0	54.4		ug/L		109	80 - 120	3	20
Vinyl acetate	100	110		ug/L		110	67 - 135	9	20
Vinyl chloride	50.0	55.7		ug/L		111	71 - 128	6	20
Xylenes, Total	100	107		ug/L		107	80 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	104		80 - 122
1,2-Dichloroethane-d4 (Surr)	99		73 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: MB 680-549540/9

Matrix: Water

Analysis Batch: 549540

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			11/30/18 11:00	1
Acrylonitrile	10	U	20	10	ug/L			11/30/18 11:00	1
Benzene	0.43	U	1.0	0.43	ug/L			11/30/18 11:00	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			11/30/18 11:00	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			11/30/18 11:00	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			11/30/18 11:00	1
Bromoform	0.43	U	1.0	0.43	ug/L			11/30/18 11:00	1
Bromomethane	2.5	U	5.0	2.5	ug/L			11/30/18 11:00	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			11/30/18 11:00	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			11/30/18 11:00	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			11/30/18 11:00	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			11/30/18 11:00	1
Chloroethane	2.5	U	5.0	2.5	ug/L			11/30/18 11:00	1
Chloroform	0.50	U	1.0	0.50	ug/L			11/30/18 11:00	1
Chloromethane	0.40	U	1.0	0.40	ug/L			11/30/18 11:00	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			11/30/18 11:00	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			11/30/18 11:00	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			11/30/18 11:00	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			11/30/18 11:00	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			11/30/18 11:00	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			11/30/18 11:00	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			11/30/18 11:00	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			11/30/18 11:00	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			11/30/18 11:00	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			11/30/18 11:00	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			11/30/18 11:00	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: MB 680-549540/9

Matrix: Water

Analysis Batch: 549540

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			11/30/18 11:00	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			11/30/18 11:00	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			11/30/18 11:00	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			11/30/18 11:00	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			11/30/18 11:00	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			11/30/18 11:00	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			11/30/18 11:00	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			11/30/18 11:00	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			11/30/18 11:00	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			11/30/18 11:00	1
2-Hexanone	2.0	U	10	2.0	ug/L			11/30/18 11:00	1
Iodomethane	5.0	U	10	5.0	ug/L			11/30/18 11:00	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			11/30/18 11:00	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			11/30/18 11:00	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			11/30/18 11:00	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			11/30/18 11:00	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			11/30/18 11:00	1
Naphthalene	2.5	U	5.0	2.5	ug/L			11/30/18 11:00	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			11/30/18 11:00	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			11/30/18 11:00	1
o-Xylene	0.23	U	1.0	0.23	ug/L			11/30/18 11:00	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			11/30/18 11:00	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			11/30/18 11:00	1
Styrene	0.27	U	1.0	0.27	ug/L			11/30/18 11:00	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			11/30/18 11:00	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			11/30/18 11:00	1
1,1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			11/30/18 11:00	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			11/30/18 11:00	1
Toluene	0.48	U	1.0	0.48	ug/L			11/30/18 11:00	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			11/30/18 11:00	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			11/30/18 11:00	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			11/30/18 11:00	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/30/18 11:00	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			11/30/18 11:00	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			11/30/18 11:00	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			11/30/18 11:00	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			11/30/18 11:00	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			11/30/18 11:00	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			11/30/18 11:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			11/30/18 11:00	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			11/30/18 11:00	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			11/30/18 11:00	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			11/30/18 11:00	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			11/30/18 11:00	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/30/18 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		11/30/18 11:00	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: MB 680-549540/9

Matrix: Water

Analysis Batch: 549540

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 122		11/30/18 11:00	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		11/30/18 11:00	1
Toluene-d8 (Surr)	99		80 - 120		11/30/18 11:00	1

Lab Sample ID: LCS 680-549540/3

Matrix: Water

Analysis Batch: 549540

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	244		ug/L		97	70 - 135
Acrylonitrile	500	481		ug/L		96	80 - 123
Benzene	50.0	50.4		ug/L		101	80 - 120
Bromobenzene	50.0	58.0		ug/L		116	80 - 121
Bromochloromethane	50.0	53.8		ug/L		108	80 - 120
Bromodichloromethane	50.0	51.9		ug/L		104	80 - 120
Bromoform	50.0	56.0		ug/L		112	74 - 126
Bromomethane	50.0	36.9	E	ug/L		74	62 - 130
2-Butanone (MEK)	250	244		ug/L		98	80 - 131
Carbon disulfide	50.0	52.1		ug/L		104	80 - 120
Carbon tetrachloride	50.0	54.7		ug/L		109	76 - 123
Chlorobenzene	50.0	54.4		ug/L		109	80 - 120
Chloroethane	50.0	62.1		ug/L		124	66 - 135
Chloroform	50.0	49.6		ug/L		99	80 - 120
Chloromethane	50.0	52.0		ug/L		104	69 - 131
2-Chlorotoluene	50.0	51.8		ug/L		104	80 - 120
4-Chlorotoluene	50.0	53.3		ug/L		107	80 - 120
cis-1,2-Dichloroethene	50.0	46.8		ug/L		94	80 - 120
cis-1,3-Dichloropropene	50.0	51.3		ug/L		103	80 - 120
Dibromochloromethane	50.0	53.3		ug/L		107	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	50.6		ug/L		101	71 - 134
1,2-Dibromoethane	50.0	52.1		ug/L		104	80 - 120
Dibromomethane	50.0	52.9		ug/L		106	80 - 120
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 120
1,3-Dichlorobenzene	50.0	51.9		ug/L		104	80 - 120
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	80 - 120
Dichlorodifluoromethane	50.0	50.8		ug/L		102	47 - 155
1,1-Dichloroethane	50.0	49.9		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	53.2		ug/L		106	80 - 120
1,1-Dichloroethene	50.0	50.5		ug/L		101	76 - 120
1,2-Dichloropropane	50.0	50.4		ug/L		101	80 - 120
1,3-Dichloropropane	50.0	50.8		ug/L		102	80 - 120
2,2-Dichloropropane	50.0	55.4		ug/L		111	76 - 126
1,1-Dichloropropene	50.0	50.1		ug/L		100	80 - 120
Ethylbenzene	50.0	53.0		ug/L		106	80 - 120
Hexachlorobutadiene	50.0	50.6		ug/L		101	60 - 140
2-Hexanone	250	241		ug/L		97	74 - 127
Iodomethane	50.0	55.5		ug/L		111	52 - 142
Isopropylbenzene	50.0	53.4		ug/L		107	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCS 680-549540/3

Matrix: Water

Analysis Batch: 549540

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	48.3		ug/L		97	80 - 120
4-Methyl-2-pentanone	250	235		ug/L		94	76 - 124
Methyl tert-butyl ether	50.0	49.8		ug/L		100	80 - 120
m-Xylene & p-Xylene	50.0	52.1		ug/L		104	80 - 120
Naphthalene	50.0	54.9		ug/L		110	59 - 140
n-Butylbenzene	50.0	43.5		ug/L		87	80 - 120
N-Propylbenzene	50.0	52.1		ug/L		104	80 - 120
o-Xylene	50.0	51.9		ug/L		104	80 - 120
p-Isopropyltoluene	50.0	47.2		ug/L		94	80 - 120
sec-Butylbenzene	50.0	50.3		ug/L		101	80 - 120
Styrene	50.0	54.0		ug/L		108	80 - 120
tert-Butylbenzene	50.0	53.1		ug/L		106	80 - 121
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/L		107	80 - 121
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/L		99	80 - 120
Tetrachloroethylene	50.0	58.9		ug/L		118	80 - 121
Toluene	50.0	52.4		ug/L		105	80 - 113
trans-1,4-Dichloro-2-butene	50.0	43.3		ug/L		87	68 - 125
trans-1,2-Dichloroethene	50.0	52.3		ug/L		105	80 - 120
trans-1,3-Dichloropropene	50.0	51.9		ug/L		104	80 - 120
1,2,3-Trichlorobenzene	50.0	48.5		ug/L		97	61 - 141
1,2,4-Trichlorobenzene	50.0	49.2		ug/L		98	68 - 128
1,1,1-Trichloroethane	50.0	52.1		ug/L		104	80 - 120
1,1,2-Trichloroethane	50.0	49.9		ug/L		100	80 - 120
Trichloroethene	50.0	48.9		ug/L		98	80 - 120
Trichlorofluoromethane	50.0	57.4		ug/L		115	60 - 141
1,2,3-Trichloropropane	50.0	52.2		ug/L		104	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.0		ug/L		106	79 - 124
1,2,4-Trimethylbenzene	50.0	51.2		ug/L		102	80 - 120
1,3,5-Trimethylbenzene	50.0	52.4		ug/L		105	80 - 120
Vinyl acetate	100	98.2		ug/L		98	67 - 135
Vinyl chloride	50.0	51.7		ug/L		103	71 - 128
Xylenes, Total	100	104		ug/L		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	98		73 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 680-549540/4

Matrix: Water

Analysis Batch: 549540

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	264		ug/L		106	70 - 135	8	30
Acrylonitrile	500	540		ug/L		108	80 - 123	12	20
Benzene	50.0	53.2		ug/L		106	80 - 120	5	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549540/4

Matrix: Water

Analysis Batch: 549540

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
Bromobenzene	50.0	61.4	*	ug/L		123	80 - 121	6	20
Bromochloromethane	50.0	57.7		ug/L		115	80 - 120	7	20
Bromodichloromethane	50.0	55.1		ug/L		110	80 - 120	6	20
Bromoform	50.0	61.1		ug/L		122	74 - 126	9	20
Bromomethane	50.0	34.0	E	ug/L		68	62 - 130	8	20
2-Butanone (MEK)	250	263		ug/L		105	80 - 131	7	20
Carbon disulfide	50.0	53.8		ug/L		108	80 - 120	3	20
Carbon tetrachloride	50.0	56.2		ug/L		112	76 - 123	3	20
Chlorobenzene	50.0	56.7		ug/L		113	80 - 120	4	20
Chloroethane	50.0	60.6		ug/L		121	66 - 135	2	20
Chloroform	50.0	53.6		ug/L		107	80 - 120	8	20
Chloromethane	50.0	54.2		ug/L		108	69 - 131	4	30
2-Chlorotoluene	50.0	54.3		ug/L		109	80 - 120	5	20
4-Chlorotoluene	50.0	56.0		ug/L		112	80 - 120	5	20
cis-1,2-Dichloroethene	50.0	51.8		ug/L		104	80 - 120	10	20
cis-1,3-Dichloropropene	50.0	54.8		ug/L		110	80 - 120	7	20
Dibromochloromethane	50.0	57.3		ug/L		115	80 - 121	7	20
1,2-Dibromo-3-Chloropropane	50.0	56.4		ug/L		113	71 - 134	11	20
1,2-Dibromoethane	50.0	57.5		ug/L		115	80 - 120	10	20
Dibromomethane	50.0	56.7		ug/L		113	80 - 120	7	20
1,2-Dichlorobenzene	50.0	55.4		ug/L		111	80 - 120	9	20
1,3-Dichlorobenzene	50.0	55.6		ug/L		111	80 - 120	7	20
1,4-Dichlorobenzene	50.0	54.5		ug/L		109	80 - 120	7	20
Dichlorodifluoromethane	50.0	50.8		ug/L		102	47 - 155	0	40
1,1-Dichloroethane	50.0	53.2		ug/L		106	80 - 120	6	20
1,2-Dichloroethane	50.0	57.6		ug/L		115	80 - 120	8	50
1,1-Dichloroethene	50.0	52.3		ug/L		105	76 - 120	4	20
1,2-Dichloropropane	50.0	53.9		ug/L		108	80 - 120	7	20
1,3-Dichloropropane	50.0	54.7		ug/L		109	80 - 120	7	20
2,2-Dichloropropane	50.0	57.7		ug/L		115	76 - 126	4	20
1,1-Dichloropropene	50.0	52.4		ug/L		105	80 - 120	5	20
Ethylbenzene	50.0	55.6		ug/L		111	80 - 120	5	20
Hexachlorobutadiene	50.0	51.9		ug/L		104	60 - 140	2	20
2-Hexanone	250	269		ug/L		108	74 - 127	11	20
Iodomethane	50.0	57.6		ug/L		115	52 - 142	4	30
Isopropylbenzene	50.0	55.5		ug/L		111	80 - 120	4	20
Methylene Chloride	50.0	50.1		ug/L		100	80 - 120	4	20
4-Methyl-2-pentanone	250	262		ug/L		105	76 - 124	11	20
Methyl tert-butyl ether	50.0	55.8		ug/L		112	80 - 120	11	20
m-Xylene & p-Xylene	50.0	55.2		ug/L		110	80 - 120	6	20
Naphthalene	50.0	59.1		ug/L		118	59 - 140	7	20
n-Butylbenzene	50.0	46.0		ug/L		92	80 - 120	6	20
N-Propylbenzene	50.0	54.5		ug/L		109	80 - 120	5	20
o-Xylene	50.0	55.1		ug/L		110	80 - 120	6	30
p-Isopropyltoluene	50.0	49.3		ug/L		99	80 - 120	4	20
sec-Butylbenzene	50.0	51.1		ug/L		102	80 - 120	2	20
Styrene	50.0	58.2		ug/L		116	80 - 120	7	20
tert-Butylbenzene	50.0	54.6		ug/L		109	80 - 121	3	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549540/4

Matrix: Water

Analysis Batch: 549540

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	57.5		ug/L		115	80 - 121	7	20
1,1,2,2-Tetrachloroethane	50.0	55.4		ug/L		111	80 - 120	11	20
Tetrachloroethylene	50.0	59.3		ug/L		119	80 - 121	1	20
Toluene	50.0	54.9		ug/L		110	80 - 113	5	20
trans-1,4-Dichloro-2-butene	50.0	50.4		ug/L		101	68 - 125	15	30
trans-1,2-Dichloroethene	50.0	55.6		ug/L		111	80 - 120	6	20
trans-1,3-Dichloropropene	50.0	56.0		ug/L		112	80 - 120	8	30
1,2,3-Trichlorobenzene	50.0	52.6		ug/L		105	61 - 141	8	20
1,2,4-Trichlorobenzene	50.0	53.8		ug/L		108	68 - 128	9	20
1,1,1-Trichloroethane	50.0	53.8		ug/L		108	80 - 120	3	20
1,1,2-Trichloroethane	50.0	55.2		ug/L		110	80 - 120	10	20
Trichloroethene	50.0	51.2		ug/L		102	80 - 120	4	20
Trichlorofluoromethane	50.0	55.9		ug/L		112	60 - 141	3	20
1,2,3-Trichloropropane	50.0	57.0		ug/L		114	80 - 123	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.5		ug/L		109	79 - 124	3	20
1,2,4-Trimethylbenzene	50.0	54.5		ug/L		109	80 - 120	6	20
1,3,5-Trimethylbenzene	50.0	55.3		ug/L		111	80 - 120	5	20
Vinyl acetate	100	110		ug/L		110	67 - 135	11	20
Vinyl chloride	50.0	52.5		ug/L		105	71 - 128	1	20
Xylenes, Total	100	110		ug/L		110	80 - 120	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	108		80 - 122
1,2-Dichloroethane-d4 (Surr)	107		73 - 131
Toluene-d8 (Surr)	105		80 - 120

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-549185/2

Matrix: Water

Analysis Batch: 549185

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			11/28/18 12:27	1

Lab Sample ID: LCS 680-549185/3

Matrix: Water

Analysis Batch: 549185

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	10.6		mg/L		106	87 - 112

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

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

Lab Sample ID: LCSD 680-549185/4

Matrix: Water

Analysis Batch: 549185

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	10.7		mg/L		107	87 - 112	2	15

Lab Sample ID: MB 680-549190/2

Matrix: Water

Analysis Batch: 549190

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			11/28/18 11:05	1

Lab Sample ID: LCS 680-549190/3

Matrix: Water

Analysis Batch: 549190

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	10.3		mg/L		103	87 - 112

Lab Sample ID: LCSD 680-549190/4

Matrix: Water

Analysis Batch: 549190

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	10.7		mg/L		107	87 - 112	4	15

Lab Sample ID: 680-161061-8 MS

Matrix: Water

Analysis Batch: 549190

Client Sample ID: DUP 304

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	0.84	J	10.0	11.2		mg/L		103	87 - 112

Lab Sample ID: 680-161061-8 MSD

Matrix: Water

Analysis Batch: 549190

Client Sample ID: DUP 304

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	0.84	J	10.0	11.2		mg/L		104	87 - 112	0	15

Lab Sample ID: 680-161061-6 DU

Matrix: Water

Analysis Batch: 549190

Client Sample ID: OLF-G33

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	1.4		1.35		mg/L		2	15

Lab Sample ID: MB 680-549241/33

Matrix: Water

Analysis Batch: 549241

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			11/28/18 20:04	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Lab Sample ID: LCS 680-549241/34
Matrix: Water
Analysis Batch: 549241

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	9.96		mg/L		100	87 - 112

Lab Sample ID: LCSD 680-549241/35
Matrix: Water
Analysis Batch: 549241

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	10.2		mg/L		102	87 - 112	2	15

Lab Sample ID: 680-161061-5 MS
Matrix: Water
Analysis Batch: 549241

Client Sample ID: OLF-G36
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	14		10.0	23.6		mg/L		95	87 - 112

Lab Sample ID: 680-161061-5 MSD
Matrix: Water
Analysis Batch: 549241

Client Sample ID: OLF-G36
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	14		10.0	23.7		mg/L		96	87 - 112	0	15

Lab Sample ID: 680-161061-2 DU
Matrix: Water
Analysis Batch: 549241

Client Sample ID: OLF-G12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	0.85	J	0.828	J	mg/L		2	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-549397/1-A
Matrix: Water
Analysis Batch: 549616

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 549397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		11/29/18 10:38	11/30/18 09:26	1

Lab Sample ID: LCS 680-549397/2-A
Matrix: Water
Analysis Batch: 549616

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 549397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	5000	4570		ug/L		91	80 - 120

TestAmerica Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

GC/MS VOA

Analysis Batch: 549305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-7	OLG-G42	Total/NA	Water	8260B	
MB 680-549305/10	Method Blank	Total/NA	Water	8260B	
LCS 680-549305/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-549305/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 549346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-549346/9	Method Blank	Total/NA	Water	8260B	
LCS 680-549346/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-549346/4	Lab Control Sample Dup	Total/NA	Water	8260B	
680-161061-7 MS	OLG-G42	Total/NA	Water	8260B	
680-161061-7 MSD	OLG-G42	Total/NA	Water	8260B	

Analysis Batch: 549348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-6	OLF-G33	Total/NA	Water	8260B	
680-161061-8	DUP 304	Total/NA	Water	8260B	
680-161061-10	OLF-G52	Total/NA	Water	8260B	
MB 680-549348/10	Method Blank	Total/NA	Water	8260B	
LCS 680-549348/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-549348/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 549349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-9	TB #495	Total/NA	Water	8260B	
MB 680-549349/9	Method Blank	Total/NA	Water	8260B	
LCS 680-549349/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-549349/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 549473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-1	OLF-G21	Total/NA	Water	8260B	
680-161061-3	OLF-G18	Total/NA	Water	8260B	
680-161061-4	OLF-G34	Total/NA	Water	8260B	
680-161061-5	OLF-G36	Total/NA	Water	8260B	
MB 680-549473/10	Method Blank	Total/NA	Water	8260B	
LCS 680-549473/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-549473/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 549540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-2	OLF-G12	Total/NA	Water	8260B	
680-161061-8 - DL	DUP 304	Total/NA	Water	8260B	
MB 680-549540/9	Method Blank	Total/NA	Water	8260B	
LCS 680-549540/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-549540/4	Lab Control Sample Dup	Total/NA	Water	8260B	

TestAmerica Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

HPLC/IC

Analysis Batch: 549185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-4	OLF-G34	Total/NA	Water	9056A	
MB 680-549185/2	Method Blank	Total/NA	Water	9056A	
LCS 680-549185/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-549185/4	Lab Control Sample Dup	Total/NA	Water	9056A	

Analysis Batch: 549190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-6	OLF-G33	Total/NA	Water	9056A	
680-161061-8	DUP 304	Total/NA	Water	9056A	
MB 680-549190/2	Method Blank	Total/NA	Water	9056A	
LCS 680-549190/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-549190/4	Lab Control Sample Dup	Total/NA	Water	9056A	
680-161061-8 MS	DUP 304	Total/NA	Water	9056A	
680-161061-8 MSD	DUP 304	Total/NA	Water	9056A	
680-161061-6 DU	OLF-G33	Total/NA	Water	9056A	

Analysis Batch: 549241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-2	OLF-G12	Total/NA	Water	9056A	
680-161061-5	OLF-G36	Total/NA	Water	9056A	
MB 680-549241/33	Method Blank	Total/NA	Water	9056A	
LCS 680-549241/34	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-549241/35	Lab Control Sample Dup	Total/NA	Water	9056A	
680-161061-5 MS	OLF-G36	Total/NA	Water	9056A	
680-161061-5 MSD	OLF-G36	Total/NA	Water	9056A	
680-161061-2 DU	OLF-G12	Total/NA	Water	9056A	

Metals

Filtration Batch: 549392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-2	OLF-G12	Dissolved	Water	FILTRATION	
680-161061-4	OLF-G34	Dissolved	Water	FILTRATION	
680-161061-5	OLF-G36	Dissolved	Water	FILTRATION	
680-161061-6	OLF-G33	Dissolved	Water	FILTRATION	
680-161061-8	DUP 304	Dissolved	Water	FILTRATION	

Prep Batch: 549397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-2	OLF-G12	Dissolved	Water	3005A	549392
680-161061-4	OLF-G34	Dissolved	Water	3005A	549392
680-161061-5	OLF-G36	Dissolved	Water	3005A	549392
680-161061-6	OLF-G33	Dissolved	Water	3005A	549392
680-161061-8	DUP 304	Dissolved	Water	3005A	549392
MB 680-549397/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-549397/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 549616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-2	OLF-G12	Dissolved	Water	6010C	549397

TestAmerica Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Metals (Continued)

Analysis Batch: 549616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161061-4	OLF-G34	Dissolved	Water	6010C	549397
680-161061-5	OLF-G36	Dissolved	Water	6010C	549397
680-161061-6	OLF-G33	Dissolved	Water	6010C	549397
680-161061-8	DUP 304	Dissolved	Water	6010C	549397
MB 680-549397/1-A	Method Blank	Total Recoverable	Water	6010C	549397
LCS 680-549397/2-A	Lab Control Sample	Total Recoverable	Water	6010C	549397

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G21

Date Collected: 11/19/18 13:41

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	549473	11/30/18 05:02	AMM	TAL SAV
Instrument ID: CMSAA										

Client Sample ID: OLF-G12

Date Collected: 11/19/18 12:11

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	549540	11/30/18 11:51	JLK	TAL SAV
Instrument ID: CMSO2										
Total/NA	Analysis	9056A		1	5 mL	5 mL	549241	11/29/18 01:40	UI	TAL SAV
Instrument ID: CICK										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549392	11/29/18 10:36	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549397	11/29/18 10:38	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549616	11/30/18 10:46	BCB	TAL SAV
Instrument ID: ICPF										

Client Sample ID: OLF-G18

Date Collected: 11/19/18 10:16

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	549473	11/30/18 05:25	AMM	TAL SAV
Instrument ID: CMSAA										

Client Sample ID: OLF-G34

Date Collected: 11/19/18 15:31

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	549473	11/30/18 05:47	AMM	TAL SAV
Instrument ID: CMSAA										
Total/NA	Analysis	9056A		1	5 mL	5 mL	549185	11/28/18 16:23	SMP	TAL SAV
Instrument ID: CICL										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549392	11/29/18 10:36	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549397	11/29/18 10:38	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549616	11/30/18 10:51	BCB	TAL SAV
Instrument ID: ICPF										

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: OLF-G36

Date Collected: 11/19/18 10:51

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	549473	11/30/18 06:10	AMM	TAL SAV
		Instrument ID: CMSAA								
Total/NA	Analysis	9056A		1	5 mL	5 mL	549241	11/29/18 02:06	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549392	11/29/18 10:36	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549397	11/29/18 10:38	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549616	11/30/18 10:33	BCB	TAL SAV
		Instrument ID: ICPF								

Client Sample ID: OLF-G33

Date Collected: 11/20/18 10:11

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549348	11/29/18 16:56	JLK	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	9056A		1	5 mL	5 mL	549190	11/28/18 17:19	SMP	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549392	11/29/18 10:36	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	549397	11/29/18 10:38	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549616	11/30/18 10:37	BCB	TAL SAV
		Instrument ID: ICPF								

Client Sample ID: OLG-G42

Date Collected: 11/19/18 15:46

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	549305	11/29/18 03:29	Y1S	TAL SAV
		Instrument ID: CMSAA								

Client Sample ID: DUP 304

Date Collected: 11/19/18 00:00

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549348	11/29/18 17:42	JLK	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	549540	11/30/18 11:28	JLK	TAL SAV
		Instrument ID: CMSO2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	549190	11/28/18 17:45	SMP	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	549392	11/29/18 10:36	AJR	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Client Sample ID: DUP 304

Date Collected: 11/19/18 00:00

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	549397	11/29/18 10:38	AJR	TAL SAV
Dissolved	Analysis	6010C		1			549616	11/30/18 10:42	BCB	TAL SAV
Instrument ID: ICPF										

Client Sample ID: TB #495

Date Collected: 11/20/18 13:00

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549349	11/29/18 12:04	JLK	TAL SAV
Instrument ID: CMSO2										

Client Sample ID: OLF-G52

Date Collected: 11/20/18 12:41

Date Received: 11/21/18 10:00

Lab Sample ID: 680-161061-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549348	11/29/18 17:19	JLK	TAL SAV
Instrument ID: CMSB										

Laboratory References:

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

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87052	06-30-19

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Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161061-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
9056A	Anions, Ion Chromatography	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
FILTRATION	Sample Filtration	None	TAL SAV

Protocol References:

None = None

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

Laboratory References:

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

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
 Lab Contact Jon Lawhon; Amy Ragnaldsen
 MES Contact Betty Van Pelt
 MES Phone 801-699-1246
 Project Parcel 80(6), Landfill 3
 Task # 18.094.19-05.2.500
 Lab contract:

Cooler ID **5547**
 Page 1 of 1

Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis					
							SW9056A Sulfate 1 - 125ml poly, none	SW6010C Sodium (dissolved, lab filtered) 1-250 mL poly, none	SW8260B - VOC 3 - 40 mL vials, HCl	RSK-175 - M,E,E 3 - 40 mL vials, HCl	SW9060A - TOC 3 - 40 mL amber vials, H2SO4	SW8260B - VOC TB 2 - 40 mL vials, HCl
DLF-G21	NS	MW	Water	BP	11/19/18	13:41						
DLF-G12					11/19/18	12:11	X	X				
DLF-G18					11/19/18	10:16						
DLF-G34					11/19/18	15:31	X	X				
DLF-G36					11/19/18	10:51	X	X				
DLF-G33					11/20/18	10:11	X	X				
DLF-G42	MS/MSD				11/19/18	15:46						
DLF-G42					11/19/18	15:46						
OWP304	FD				11/19/18	N/A	X	X				
TB#495	TB	TB		Grab	11/20/18	13:00						X
DLF-G52	NS	MW		BP	11/20/18	12:41		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
 Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump
 White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
 See Task Order 093 for required list of VOCs and metals.

Double the number of bottles for MS/MSD

COMMENTS:
 Relinquished by (Signature): Date/Time: 11/20/18 16:00

Received by (Signature): Fedex
 Date/Time: 11/20/18 16:00

Relinquished by (Signature): Date/Time: 11/20/18 10:00
 Received by (Signature): Date/Time: 10/10



Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-161061-1

Login Number: 161061

List Source: TestAmerica Savannah

List Number: 1

Creator: Jackson, Victor L

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?	N/A	
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	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-161411-1

Client Project/Site: Parcel 80(6), Landfill 3

For:

Matrix Environmental Services, LLC

1601 Blake Street

Suite 200

Denver, Colorado 80202

Attn: Ms. Betty Van Pelt



Authorized for release by:

12/12/2018 1:20:08 PM

Jon Lawhon, Project Manager I

(912)250-0283

jon.lawhon@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Qualifiers

GC/MS VOA

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

GC VOA

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

HPLC/IC

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

Metals

Qualifier	Qualifier Description
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-161411-1	OLF-G75 Screen 1	Water	11/26/18 10:41	11/29/18 09:42
680-161411-2	OLF-G75 Screen 2	Water	11/26/18 12:41	11/29/18 09:42
680-161411-3	OLF-G75 Screen 3	Water	11/26/18 15:01	11/29/18 09:42
680-161411-4	OLF-G75 Screen 4	Water	11/27/18 12:46	11/29/18 09:42
680-161411-5	OLF-G75 Screen 5	Water	11/27/18 11:06	11/29/18 09:42
680-161411-6	OLF-G75 Screen 6	Water	11/27/18 09:46	11/29/18 09:42
680-161411-7	OLF-G31	Water	11/26/18 16:06	11/29/18 09:42
680-161411-8	OLF-G32	Water	11/26/18 14:46	11/29/18 09:42
680-161411-9	OLF-G22	Water	11/27/18 10:36	11/29/18 09:42
680-161411-10	OLF-G47	Water	11/28/18 12:06	11/29/18 09:42
680-161411-11	OLF-G70	Water	11/26/18 10:51	11/29/18 09:42
680-161411-12	Dup 302	Water	11/28/18 00:00	11/29/18 09:42
680-161411-13	MB 093	Water	11/28/18 13:00	11/29/18 09:42
680-161411-14	EB 122	Water	11/28/18 12:50	11/29/18 09:42
680-161411-15	TB 496	Water	11/28/18 13:30	11/29/18 09:42

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Job ID: 680-161411-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC
Project: Parcel 80(6), Landfill 3

Report Number: 680-161411-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/29/2018 9:42 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OLF-G75 Screen 1 (680-161411-1), OLF-G75 Screen 2 (680-161411-2), OLF-G75 Screen 3 (680-161411-3), OLF-G75 Screen 4 (680-161411-4), OLF-G75 Screen 5 (680-161411-5), OLF-G75 Screen 6 (680-161411-6), OLF-G31 (680-161411-7), OLF-G32 (680-161411-8), OLF-G22 (680-161411-9), OLF-G47 (680-161411-10), OLF-G70 (680-161411-11), Dup 302 (680-161411-12), MB 093 (680-161411-13), EB 122 (680-161411-14) and TB 496 (680-161411-15) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/04/2018 and 12/05/2018.

Bromomethane is reported with an E flag in the batch QC because the top two points were dropped from the ICAL. The sample associated with the QC was non detect for bromomethane. The data has been qualified and reported.

Sample OLF-G22 (680-161411-9) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

DISSOLVED GASES

Samples MB 093 (680-161411-13) and EB 122 (680-161411-14) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 12/04/2018.

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

METALS (ICP) - DISSOLVED

Samples OLF-G22 (680-161411-9), MB 093 (680-161411-13) and EB 122 (680-161411-14) were analyzed for Metals (ICP) - Dissolved in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/10/2018 and analyzed on 12/11/2018.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples OLF-G22 (680-161411-9), MB 093 (680-161411-13) and EB 122 (680-161411-14) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with SW 846 9056A. The samples were analyzed on 12/07/2018.

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

TOTAL ORGANIC CARBON

Samples MB 093 (680-161411-13) and EB 122 (680-161411-14) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 12/04/2018.

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Job ID: 680-161411-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

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

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G75 Screen 1

Lab Sample ID: 680-161411-1

Date Collected: 11/26/18 10:41

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 15:29	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 15:29	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 15:29	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 15:29	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 15:29	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 15:29	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 15:29	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 15:29	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 15:29	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 15:29	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 15:29	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 15:29	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 15:29	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 15:29	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 15:29	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 15:29	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 15:29	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 15:29	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 15:29	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 15:29	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 15:29	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 15:29	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 15:29	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 15:29	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 15:29	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 15:29	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 15:29	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 15:29	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 15:29	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 15:29	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 15:29	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 15:29	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 15:29	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 15:29	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 15:29	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 15:29	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 15:29	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 15:29	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 15:29	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 15:29	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 15:29	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 15:29	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 15:29	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 15:29	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 15:29	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 15:29	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 15:29	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 15:29	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 15:29	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G75 Screen 1

Lab Sample ID: 680-161411-1

Date Collected: 11/26/18 10:41

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 15:29	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 15:29	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 15:29	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 15:29	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 15:29	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 15:29	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 15:29	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 15:29	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 15:29	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 15:29	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 15:29	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 15:29	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 15:29	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 15:29	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 15:29	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 15:29	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 15:29	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 15:29	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 15:29	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 15:29	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		12/04/18 15:29	1
Dibromofluoromethane (Surr)	101		80 - 122		12/04/18 15:29	1
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		12/04/18 15:29	1
Toluene-d8 (Surr)	108		80 - 120		12/04/18 15:29	1

Client Sample ID: OLF-G75 Screen 2

Lab Sample ID: 680-161411-2

Date Collected: 11/26/18 12:41

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 15:53	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 15:53	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 15:53	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 15:53	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 15:53	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 15:53	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 15:53	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 15:53	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 15:53	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 15:53	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 15:53	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 15:53	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 15:53	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 15:53	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 15:53	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G75 Screen 2

Lab Sample ID: 680-161411-2

Date Collected: 11/26/18 12:41

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 15:53	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 15:53	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 15:53	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 15:53	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 15:53	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 15:53	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 15:53	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 15:53	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 15:53	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 15:53	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 15:53	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 15:53	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 15:53	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 15:53	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 15:53	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 15:53	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 15:53	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 15:53	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 15:53	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 15:53	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 15:53	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 15:53	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 15:53	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 15:53	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 15:53	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 15:53	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 15:53	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 15:53	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 15:53	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 15:53	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 15:53	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 15:53	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 15:53	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 15:53	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 15:53	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 15:53	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 15:53	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 15:53	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 15:53	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 15:53	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 15:53	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 15:53	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 15:53	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 15:53	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 15:53	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 15:53	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 15:53	1
Trichloroethene	0.81	J	1.0	0.48	ug/L			12/04/18 15:53	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 15:53	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G75 Screen 2

Lab Sample ID: 680-161411-2

Date Collected: 11/26/18 12:41

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 15:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 15:53	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 15:53	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 15:53	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 15:53	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 15:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		12/04/18 15:53	1
Dibromofluoromethane (Surr)	103		80 - 122		12/04/18 15:53	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		12/04/18 15:53	1
Toluene-d8 (Surr)	106		80 - 120		12/04/18 15:53	1

Client Sample ID: OLF-G75 Screen 3

Lab Sample ID: 680-161411-3

Date Collected: 11/26/18 15:01

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 16:16	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 16:16	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 16:16	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 16:16	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 16:16	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 16:16	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 16:16	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 16:16	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 16:16	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 16:16	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 16:16	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 16:16	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 16:16	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 16:16	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 16:16	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 16:16	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 16:16	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 16:16	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 16:16	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 16:16	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 16:16	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 16:16	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 16:16	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 16:16	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 16:16	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 16:16	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 16:16	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 16:16	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 16:16	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 16:16	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G75 Screen 3

Lab Sample ID: 680-161411-3

Date Collected: 11/26/18 15:01

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 16:16	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 16:16	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 16:16	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 16:16	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 16:16	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 16:16	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 16:16	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 16:16	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 16:16	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 16:16	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 16:16	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 16:16	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 16:16	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 16:16	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 16:16	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 16:16	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 16:16	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 16:16	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 16:16	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 16:16	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 16:16	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 16:16	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 16:16	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 16:16	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 16:16	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 16:16	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 16:16	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 16:16	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 16:16	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 16:16	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 16:16	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 16:16	1
Trichloroethene	3.4		1.0	0.48	ug/L			12/04/18 16:16	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 16:16	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 16:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 16:16	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 16:16	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 16:16	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 16:16	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 16:16	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		12/04/18 16:16	1
Dibromofluoromethane (Surr)	103		80 - 122		12/04/18 16:16	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		12/04/18 16:16	1
Toluene-d8 (Surr)	108		80 - 120		12/04/18 16:16	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G75 Screen 4

Lab Sample ID: 680-161411-4

Date Collected: 11/27/18 12:46

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 16:39	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 16:39	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 16:39	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 16:39	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 16:39	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 16:39	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 16:39	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 16:39	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 16:39	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 16:39	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 16:39	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 16:39	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 16:39	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 16:39	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 16:39	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 16:39	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 16:39	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 16:39	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 16:39	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 16:39	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 16:39	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 16:39	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 16:39	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 16:39	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 16:39	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 16:39	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 16:39	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 16:39	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 16:39	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 16:39	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 16:39	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 16:39	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 16:39	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 16:39	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 16:39	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 16:39	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 16:39	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 16:39	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 16:39	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 16:39	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 16:39	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 16:39	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 16:39	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 16:39	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 16:39	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 16:39	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 16:39	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 16:39	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 16:39	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G75 Screen 4

Lab Sample ID: 680-161411-4

Date Collected: 11/27/18 12:46

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 16:39	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 16:39	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 16:39	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 16:39	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 16:39	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 16:39	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 16:39	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 16:39	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 16:39	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 16:39	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 16:39	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 16:39	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 16:39	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 16:39	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 16:39	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 16:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 16:39	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 16:39	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 16:39	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 16:39	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 16:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		12/04/18 16:39	1
Dibromofluoromethane (Surr)	104		80 - 122		12/04/18 16:39	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		12/04/18 16:39	1
Toluene-d8 (Surr)	107		80 - 120		12/04/18 16:39	1

Client Sample ID: OLF-G75 Screen 5

Lab Sample ID: 680-161411-5

Date Collected: 11/27/18 11:06

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 17:02	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 17:02	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 17:02	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 17:02	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 17:02	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 17:02	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 17:02	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 17:02	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 17:02	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 17:02	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 17:02	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 17:02	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 17:02	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 17:02	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 17:02	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G75 Screen 5

Lab Sample ID: 680-161411-5

Date Collected: 11/27/18 11:06

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 17:02	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 17:02	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 17:02	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 17:02	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 17:02	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 17:02	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 17:02	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 17:02	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 17:02	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 17:02	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 17:02	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 17:02	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 17:02	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 17:02	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 17:02	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 17:02	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 17:02	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 17:02	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 17:02	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 17:02	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 17:02	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 17:02	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 17:02	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 17:02	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 17:02	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 17:02	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 17:02	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 17:02	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 17:02	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 17:02	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 17:02	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 17:02	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 17:02	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 17:02	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 17:02	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 17:02	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 17:02	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 17:02	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 17:02	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 17:02	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 17:02	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 17:02	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 17:02	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 17:02	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 17:02	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 17:02	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 17:02	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 17:02	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 17:02	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G75 Screen 5

Lab Sample ID: 680-161411-5

Date Collected: 11/27/18 11:06

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 17:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 17:02	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 17:02	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 17:02	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 17:02	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 17:02	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		12/04/18 17:02	1
Dibromofluoromethane (Surr)	104		80 - 122		12/04/18 17:02	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		12/04/18 17:02	1
Toluene-d8 (Surr)	107		80 - 120		12/04/18 17:02	1

Client Sample ID: OLF-G75 Screen 6

Lab Sample ID: 680-161411-6

Date Collected: 11/27/18 09:46

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 17:25	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 17:25	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 17:25	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 17:25	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 17:25	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 17:25	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 17:25	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 17:25	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 17:25	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 17:25	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 17:25	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 17:25	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 17:25	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 17:25	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 17:25	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 17:25	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 17:25	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 17:25	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 17:25	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 17:25	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 17:25	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 17:25	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 17:25	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 17:25	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 17:25	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 17:25	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 17:25	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 17:25	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 17:25	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 17:25	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G75 Screen 6

Lab Sample ID: 680-161411-6

Date Collected: 11/27/18 09:46

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 17:25	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 17:25	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 17:25	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 17:25	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 17:25	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 17:25	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 17:25	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 17:25	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 17:25	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 17:25	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 17:25	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 17:25	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 17:25	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 17:25	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 17:25	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 17:25	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 17:25	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 17:25	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 17:25	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 17:25	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 17:25	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 17:25	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 17:25	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 17:25	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 17:25	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 17:25	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 17:25	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 17:25	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 17:25	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 17:25	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 17:25	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 17:25	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 17:25	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 17:25	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 17:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 17:25	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 17:25	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 17:25	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 17:25	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 17:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		12/04/18 17:25	1
Dibromofluoromethane (Surr)	103		80 - 122		12/04/18 17:25	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		12/04/18 17:25	1
Toluene-d8 (Surr)	107		80 - 120		12/04/18 17:25	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G31

Lab Sample ID: 680-161411-7

Date Collected: 11/26/18 16:06

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 17:48	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 17:48	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 17:48	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 17:48	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 17:48	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 17:48	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 17:48	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 17:48	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 17:48	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 17:48	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 17:48	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 17:48	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 17:48	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 17:48	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 17:48	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 17:48	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 17:48	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 17:48	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 17:48	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 17:48	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 17:48	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 17:48	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 17:48	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 17:48	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 17:48	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 17:48	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 17:48	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 17:48	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 17:48	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 17:48	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 17:48	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 17:48	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 17:48	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 17:48	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 17:48	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 17:48	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 17:48	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 17:48	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 17:48	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 17:48	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 17:48	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 17:48	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 17:48	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 17:48	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 17:48	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 17:48	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 17:48	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 17:48	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 17:48	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G31

Lab Sample ID: 680-161411-7

Date Collected: 11/26/18 16:06

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 17:48	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 17:48	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 17:48	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 17:48	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 17:48	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 17:48	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 17:48	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 17:48	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 17:48	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 17:48	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 17:48	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 17:48	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 17:48	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 17:48	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 17:48	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 17:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 17:48	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 17:48	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 17:48	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 17:48	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 17:48	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		12/04/18 17:48	1
Dibromofluoromethane (Surr)	103		80 - 122		12/04/18 17:48	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		12/04/18 17:48	1
Toluene-d8 (Surr)	106		80 - 120		12/04/18 17:48	1

Client Sample ID: OLF-G32

Lab Sample ID: 680-161411-8

Date Collected: 11/26/18 14:46

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 18:11	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 18:11	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 18:11	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 18:11	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 18:11	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 18:11	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 18:11	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 18:11	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 18:11	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 18:11	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 18:11	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 18:11	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 18:11	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 18:11	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 18:11	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G32

Lab Sample ID: 680-161411-8

Date Collected: 11/26/18 14:46

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 18:11	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 18:11	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 18:11	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 18:11	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 18:11	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 18:11	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 18:11	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 18:11	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 18:11	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 18:11	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 18:11	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 18:11	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 18:11	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 18:11	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 18:11	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 18:11	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 18:11	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 18:11	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 18:11	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 18:11	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 18:11	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 18:11	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 18:11	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 18:11	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 18:11	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 18:11	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 18:11	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 18:11	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 18:11	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 18:11	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 18:11	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 18:11	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 18:11	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 18:11	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 18:11	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 18:11	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 18:11	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 18:11	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 18:11	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 18:11	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 18:11	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 18:11	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 18:11	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 18:11	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 18:11	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 18:11	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 18:11	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 18:11	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 18:11	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G32

Lab Sample ID: 680-161411-8

Date Collected: 11/26/18 14:46

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 18:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 18:11	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 18:11	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 18:11	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 18:11	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 18:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		12/04/18 18:11	1
Dibromofluoromethane (Surr)	104		80 - 122		12/04/18 18:11	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		12/04/18 18:11	1
Toluene-d8 (Surr)	105		80 - 120		12/04/18 18:11	1

Client Sample ID: OLF-G22

Lab Sample ID: 680-161411-9

Date Collected: 11/27/18 10:36

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/05/18 16:01	1
Acrylonitrile	10	U	20	10	ug/L			12/05/18 16:01	1
Benzene	0.43	U	1.0	0.43	ug/L			12/05/18 16:01	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/05/18 16:01	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/05/18 16:01	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/05/18 16:01	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/05/18 16:01	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/05/18 16:01	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/05/18 16:01	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/05/18 16:01	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/05/18 16:01	1
Chlorobenzene	3.5		1.0	0.26	ug/L			12/05/18 16:01	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/05/18 16:01	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/05/18 16:01	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/05/18 16:01	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/05/18 16:01	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/05/18 16:01	1
cis-1,2-Dichloroethene	59		1.0	0.41	ug/L			12/05/18 16:01	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/05/18 16:01	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/05/18 16:01	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/05/18 16:01	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/05/18 16:01	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/05/18 16:01	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/05/18 16:01	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/05/18 16:01	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/05/18 16:01	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/05/18 16:01	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/05/18 16:01	1
1,2-Dichloroethane	0.52 J		1.0	0.50	ug/L			12/05/18 16:01	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/05/18 16:01	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G22

Lab Sample ID: 680-161411-9

Date Collected: 11/27/18 10:36

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/05/18 16:01	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/05/18 16:01	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/05/18 16:01	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/05/18 16:01	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/05/18 16:01	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/05/18 16:01	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/05/18 16:01	1
Iodomethane	5.0	U	10	5.0	ug/L			12/05/18 16:01	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/05/18 16:01	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/05/18 16:01	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/05/18 16:01	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/05/18 16:01	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/05/18 16:01	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/05/18 16:01	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/05/18 16:01	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/05/18 16:01	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/05/18 16:01	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/05/18 16:01	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/05/18 16:01	1
Styrene	0.27	U	1.0	0.27	ug/L			12/05/18 16:01	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/05/18 16:01	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/05/18 16:01	1
1,1,2,2-Tetrachloroethane	100		1.0	0.62	ug/L			12/05/18 16:01	1
Tetrachloroethylene	1.0		1.0	0.74	ug/L			12/05/18 16:01	1
Toluene	0.48	U	1.0	0.48	ug/L			12/05/18 16:01	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/05/18 16:01	1
trans-1,2-Dichloroethene	13		1.0	0.37	ug/L			12/05/18 16:01	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/05/18 16:01	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/05/18 16:01	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/05/18 16:01	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/05/18 16:01	1
1,1,2-Trichloroethane	3.0		1.0	0.33	ug/L			12/05/18 16:01	1
Trichloroethene	110		1.0	0.48	ug/L			12/05/18 16:01	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/05/18 16:01	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/05/18 16:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/05/18 16:01	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/05/18 16:01	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/05/18 16:01	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/05/18 16:01	1
Vinyl chloride	1.4		1.0	0.50	ug/L			12/05/18 16:01	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/05/18 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120		12/04/18 14:12	5
4-Bromofluorobenzene (Surr)	91		80 - 120		12/05/18 16:01	1
Dibromofluoromethane (Surr)	104		80 - 122		12/04/18 14:12	5
Dibromofluoromethane (Surr)	93		80 - 122		12/05/18 16:01	1
1,2-Dichloroethane-d4 (Surr)	108		73 - 131		12/04/18 14:12	5
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		12/05/18 16:01	1
Toluene-d8 (Surr)	110		80 - 120		12/04/18 14:12	5

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G22

Lab Sample ID: 680-161411-9

Date Collected: 11/27/18 10:36

Matrix: Water

Date Received: 11/29/18 09:42

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		12/05/18 16:01	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.1		1.0	0.40	mg/L			12/07/18 10:50	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	6900		1000	480	ug/L		12/10/18 11:13	12/11/18 16:29	1

Client Sample ID: OLF-G47

Lab Sample ID: 680-161411-10

Date Collected: 11/28/18 12:06

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 14:33	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 14:33	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 14:33	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 14:33	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 14:33	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 14:33	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 14:33	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 14:33	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 14:33	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 14:33	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 14:33	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 14:33	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 14:33	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 14:33	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 14:33	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 14:33	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 14:33	1
cis-1,2-Dichloroethene	4.6		1.0	0.41	ug/L			12/04/18 14:33	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 14:33	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 14:33	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 14:33	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 14:33	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 14:33	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 14:33	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 14:33	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 14:33	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 14:33	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 14:33	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 14:33	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 14:33	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 14:33	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 14:33	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 14:33	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 14:33	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G47

Lab Sample ID: 680-161411-10

Date Collected: 11/28/18 12:06

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 14:33	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 14:33	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 14:33	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 14:33	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 14:33	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 14:33	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 14:33	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 14:33	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 14:33	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 14:33	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 14:33	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 14:33	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 14:33	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 14:33	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 14:33	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 14:33	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 14:33	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 14:33	1
1,1,2,2-Tetrachloroethane	1.9		1.0	0.62	ug/L			12/04/18 14:33	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 14:33	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 14:33	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 14:33	1
trans-1,2-Dichloroethene	1.3		1.0	0.37	ug/L			12/04/18 14:33	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 14:33	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 14:33	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 14:33	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 14:33	1
1,1,2-Trichloroethane	0.40	J	1.0	0.33	ug/L			12/04/18 14:33	1
Trichloroethene	34		1.0	0.48	ug/L			12/04/18 14:33	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 14:33	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 14:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 14:33	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 14:33	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 14:33	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 14:33	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 14:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		12/04/18 14:33	1
Dibromofluoromethane (Surr)	105		80 - 122		12/04/18 14:33	1
1,2-Dichloroethane-d4 (Surr)	107		73 - 131		12/04/18 14:33	1
Toluene-d8 (Surr)	110		80 - 120		12/04/18 14:33	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G70

Lab Sample ID: 680-161411-11

Date Collected: 11/26/18 10:51

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 14:55	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 14:55	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 14:55	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 14:55	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 14:55	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 14:55	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 14:55	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 14:55	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 14:55	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 14:55	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 14:55	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 14:55	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 14:55	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 14:55	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 14:55	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 14:55	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 14:55	1
cis-1,2-Dichloroethene	1.8		1.0	0.41	ug/L			12/04/18 14:55	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 14:55	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 14:55	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 14:55	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 14:55	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 14:55	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 14:55	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 14:55	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 14:55	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 14:55	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 14:55	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 14:55	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 14:55	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 14:55	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 14:55	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 14:55	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 14:55	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 14:55	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 14:55	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 14:55	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 14:55	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 14:55	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 14:55	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 14:55	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 14:55	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 14:55	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 14:55	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 14:55	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 14:55	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 14:55	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 14:55	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 14:55	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G70

Lab Sample ID: 680-161411-11

Date Collected: 11/26/18 10:51

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 14:55	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 14:55	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 14:55	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 14:55	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 14:55	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 14:55	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 14:55	1
trans-1,2-Dichloroethene	0.57	J	1.0	0.37	ug/L			12/04/18 14:55	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 14:55	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 14:55	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 14:55	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 14:55	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 14:55	1
Trichloroethene	8.1		1.0	0.48	ug/L			12/04/18 14:55	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 14:55	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 14:55	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 14:55	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 14:55	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 14:55	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 14:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		12/04/18 14:55	1
Dibromofluoromethane (Surr)	106		80 - 122		12/04/18 14:55	1
1,2-Dichloroethane-d4 (Surr)	105		73 - 131		12/04/18 14:55	1
Toluene-d8 (Surr)	107		80 - 120		12/04/18 14:55	1

Client Sample ID: Dup 302

Lab Sample ID: 680-161411-12

Date Collected: 11/28/18 00:00

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 13:28	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 13:28	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 13:28	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 13:28	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 13:28	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 13:28	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 13:28	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 13:28	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 13:28	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 13:28	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 13:28	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 13:28	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 13:28	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 13:28	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 13:28	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: Dup 302

Lab Sample ID: 680-161411-12

Date Collected: 11/28/18 00:00

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 13:28	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 13:28	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 13:28	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 13:28	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 13:28	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 13:28	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 13:28	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 13:28	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 13:28	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 13:28	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 13:28	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 13:28	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 13:28	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 13:28	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 13:28	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 13:28	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 13:28	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 13:28	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 13:28	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 13:28	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 13:28	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 13:28	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 13:28	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 13:28	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 13:28	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 13:28	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 13:28	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 13:28	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 13:28	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 13:28	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 13:28	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 13:28	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 13:28	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 13:28	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 13:28	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 13:28	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 13:28	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 13:28	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 13:28	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 13:28	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 13:28	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 13:28	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 13:28	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 13:28	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 13:28	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 13:28	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 13:28	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 13:28	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 13:28	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: Dup 302

Lab Sample ID: 680-161411-12

Date Collected: 11/28/18 00:00

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 13:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 13:28	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 13:28	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 13:28	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 13:28	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 13:28	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		12/04/18 13:28	1
Dibromofluoromethane (Surr)	104		80 - 122		12/04/18 13:28	1
1,2-Dichloroethane-d4 (Surr)	104		73 - 131		12/04/18 13:28	1
Toluene-d8 (Surr)	107		80 - 120		12/04/18 13:28	1

Client Sample ID: MB 093

Lab Sample ID: 680-161411-13

Date Collected: 11/28/18 13:00

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 13:50	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 13:50	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 13:50	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 13:50	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 13:50	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 13:50	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 13:50	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 13:50	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 13:50	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 13:50	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 13:50	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 13:50	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 13:50	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 13:50	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 13:50	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 13:50	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 13:50	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 13:50	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 13:50	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 13:50	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 13:50	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 13:50	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 13:50	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 13:50	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 13:50	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 13:50	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 13:50	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 13:50	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 13:50	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 13:50	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: MB 093

Lab Sample ID: 680-161411-13

Date Collected: 11/28/18 13:00

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 13:50	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 13:50	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 13:50	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 13:50	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 13:50	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 13:50	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 13:50	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 13:50	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 13:50	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 13:50	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 13:50	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 13:50	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 13:50	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 13:50	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 13:50	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 13:50	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 13:50	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 13:50	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 13:50	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 13:50	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 13:50	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 13:50	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 13:50	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 13:50	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 13:50	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 13:50	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 13:50	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 13:50	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 13:50	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 13:50	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 13:50	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 13:50	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 13:50	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 13:50	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 13:50	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 13:50	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 13:50	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 13:50	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 13:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120		12/04/18 13:50	1
Dibromofluoromethane (Surr)	101		80 - 122		12/04/18 13:50	1
1,2-Dichloroethane-d4 (Surr)	102		73 - 131		12/04/18 13:50	1
Toluene-d8 (Surr)	108		80 - 120		12/04/18 13:50	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: MB 093

Lab Sample ID: 680-161411-13

Date Collected: 11/28/18 13:00

Matrix: Water

Date Received: 11/29/18 09:42

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			12/04/18 13:33	1
Ethylene	0.50	U	1.0	0.50	ug/L			12/04/18 13:33	1
Methane	0.29	U	0.58	0.29	ug/L			12/04/18 13:33	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			12/07/18 11:03	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		12/10/18 11:13	12/11/18 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			12/04/18 10:20	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			12/04/18 10:20	1

Client Sample ID: EB 122

Lab Sample ID: 680-161411-14

Date Collected: 11/28/18 12:50

Matrix: Water

Date Received: 11/29/18 09:42

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 12:45	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 12:45	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 12:45	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 12:45	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 12:45	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 12:45	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 12:45	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 12:45	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 12:45	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 12:45	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 12:45	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 12:45	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 12:45	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 12:45	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 12:45	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 12:45	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 12:45	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 12:45	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 12:45	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 12:45	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 12:45	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 12:45	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 12:45	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 12:45	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 12:45	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 12:45	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 12:45	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: EB 122

Lab Sample ID: 680-161411-14

Date Collected: 11/28/18 12:50

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 12:45	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 12:45	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 12:45	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 12:45	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 12:45	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 12:45	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 12:45	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 12:45	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 12:45	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 12:45	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 12:45	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 12:45	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 12:45	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 12:45	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 12:45	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 12:45	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 12:45	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 12:45	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 12:45	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 12:45	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 12:45	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 12:45	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 12:45	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 12:45	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 12:45	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 12:45	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 12:45	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 12:45	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 12:45	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 12:45	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 12:45	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 12:45	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 12:45	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 12:45	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 12:45	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 12:45	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 12:45	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 12:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 12:45	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 12:45	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 12:45	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 12:45	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 12:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		12/04/18 12:45	1
Dibromofluoromethane (Surr)	109		80 - 122		12/04/18 12:45	1
1,2-Dichloroethane-d4 (Surr)	105		73 - 131		12/04/18 12:45	1
Toluene-d8 (Surr)	106		80 - 120		12/04/18 12:45	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L	-		12/04/18 13:45	1
Ethylene	0.50	U	1.0	0.50	ug/L	-		12/04/18 13:45	1
Methane	0.29	U	0.58	0.29	ug/L	-		12/04/18 13:45	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L	-		12/07/18 11:16	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L	-	12/10/18 11:13	12/11/18 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L	-		12/04/18 10:38	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L	-		12/04/18 10:38	1

Client Sample ID: TB 496

Date Collected: 11/28/18 13:30

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L	-		12/04/18 13:07	1
Acrylonitrile	10	U	20	10	ug/L	-		12/04/18 13:07	1
Benzene	0.43	U	1.0	0.43	ug/L	-		12/04/18 13:07	1
Bromobenzene	0.50	U	1.0	0.50	ug/L	-		12/04/18 13:07	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L	-		12/04/18 13:07	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L	-		12/04/18 13:07	1
Bromoform	0.43	U	1.0	0.43	ug/L	-		12/04/18 13:07	1
Bromomethane	2.5	U	5.0	2.5	ug/L	-		12/04/18 13:07	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L	-		12/04/18 13:07	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L	-		12/04/18 13:07	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L	-		12/04/18 13:07	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L	-		12/04/18 13:07	1
Chloroethane	2.5	U	5.0	2.5	ug/L	-		12/04/18 13:07	1
Chloroform	0.50	U	1.0	0.50	ug/L	-		12/04/18 13:07	1
Chloromethane	0.40	U	1.0	0.40	ug/L	-		12/04/18 13:07	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L	-		12/04/18 13:07	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L	-		12/04/18 13:07	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L	-		12/04/18 13:07	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L	-		12/04/18 13:07	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L	-		12/04/18 13:07	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L	-		12/04/18 13:07	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L	-		12/04/18 13:07	1
Dibromomethane	0.35	U	1.0	0.35	ug/L	-		12/04/18 13:07	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L	-		12/04/18 13:07	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L	-		12/04/18 13:07	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L	-		12/04/18 13:07	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L	-		12/04/18 13:07	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L	-		12/04/18 13:07	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L	-		12/04/18 13:07	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L	-		12/04/18 13:07	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L	-		12/04/18 13:07	1

TestAmerica Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: TB 496

Lab Sample ID: 680-161411-15

Date Collected: 11/28/18 13:30

Matrix: Water

Date Received: 11/29/18 09:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 13:07	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 13:07	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 13:07	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 13:07	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 13:07	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 13:07	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 13:07	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 13:07	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 13:07	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 13:07	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 13:07	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 13:07	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 13:07	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 13:07	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 13:07	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 13:07	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 13:07	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 13:07	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 13:07	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 13:07	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 13:07	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 13:07	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 13:07	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 13:07	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 13:07	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 13:07	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 13:07	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 13:07	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 13:07	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 13:07	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 13:07	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 13:07	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 13:07	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 13:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 13:07	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 13:07	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 13:07	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 13:07	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 13:07	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		80 - 120		12/04/18 13:07	1
Dibromofluoromethane (Surr)	107		80 - 122		12/04/18 13:07	1
1,2-Dichloroethane-d4 (Surr)	106		73 - 131		12/04/18 13:07	1
Toluene-d8 (Surr)	107		80 - 120		12/04/18 13:07	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-549967/10

Matrix: Water

Analysis Batch: 549967

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 11:15	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 11:15	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 11:15	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 11:15	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 11:15	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 11:15	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 11:15	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 11:15	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 11:15	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 11:15	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 11:15	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 11:15	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 11:15	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 11:15	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 11:15	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 11:15	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 11:15	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 11:15	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 11:15	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 11:15	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 11:15	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 11:15	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 11:15	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 11:15	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 11:15	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 11:15	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 11:15	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 11:15	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 11:15	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 11:15	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 11:15	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 11:15	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 11:15	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 11:15	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 11:15	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 11:15	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 11:15	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 11:15	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 11:15	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 11:15	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 11:15	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 11:15	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 11:15	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 11:15	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 11:15	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 11:15	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 11:15	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 11:15	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: MB 680-549967/10

Matrix: Water

Analysis Batch: 549967

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 11:15	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 11:15	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 11:15	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 11:15	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 11:15	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 11:15	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 11:15	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 11:15	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 11:15	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 11:15	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 11:15	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 11:15	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 11:15	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 11:15	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 11:15	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 11:15	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 11:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 11:15	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 11:15	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 11:15	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 11:15	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 11:15	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		12/04/18 11:15	1
Dibromofluoromethane (Surr)	99		80 - 122		12/04/18 11:15	1
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		12/04/18 11:15	1
Toluene-d8 (Surr)	103		80 - 120		12/04/18 11:15	1

Lab Sample ID: LCS 680-549967/4

Matrix: Water

Analysis Batch: 549967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	234		ug/L		93	70 - 135
Acrylonitrile	500	434		ug/L		87	80 - 123
Benzene	50.0	48.8		ug/L		98	80 - 120
Bromobenzene	50.0	54.7		ug/L		109	80 - 121
Bromochloromethane	50.0	49.2		ug/L		98	80 - 120
Bromodichloromethane	50.0	47.1		ug/L		94	80 - 120
Bromoform	50.0	43.1		ug/L		86	74 - 126
Bromomethane	50.0	57.6		ug/L		115	62 - 130
2-Butanone (MEK)	250	228		ug/L		91	80 - 131
Carbon disulfide	50.0	48.9		ug/L		98	80 - 120
Carbon tetrachloride	50.0	49.2		ug/L		98	76 - 123
Chlorobenzene	50.0	54.2		ug/L		108	80 - 120
Chloroethane	50.0	48.7		ug/L		97	66 - 135

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: LCS 680-549967/4

Matrix: Water

Analysis Batch: 549967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	49.7		ug/L		99	80 - 120
Chloromethane	50.0	46.6		ug/L		93	69 - 131
2-Chlorotoluene	50.0	54.9		ug/L		110	80 - 120
4-Chlorotoluene	50.0	54.9		ug/L		110	80 - 120
cis-1,2-Dichloroethene	50.0	46.2		ug/L		92	80 - 120
cis-1,3-Dichloropropene	50.0	48.3		ug/L		97	80 - 120
Dibromochloromethane	50.0	48.4		ug/L		97	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	47.9		ug/L		96	71 - 134
1,2-Dibromoethane	50.0	52.5		ug/L		105	80 - 120
Dibromomethane	50.0	49.7		ug/L		99	80 - 120
1,2-Dichlorobenzene	50.0	52.0		ug/L		104	80 - 120
1,3-Dichlorobenzene	50.0	54.6		ug/L		109	80 - 120
1,4-Dichlorobenzene	50.0	52.8		ug/L		106	80 - 120
Dichlorodifluoromethane	50.0	52.3		ug/L		105	47 - 155
1,1-Dichloroethane	50.0	47.0		ug/L		94	80 - 120
1,2-Dichloroethane	50.0	47.2		ug/L		94	80 - 120
1,1,1-Dichloroethene	50.0	51.9		ug/L		104	76 - 120
1,2-Dichloropropane	50.0	47.8		ug/L		96	80 - 120
1,3-Dichloropropane	50.0	49.5		ug/L		99	80 - 120
2,2-Dichloropropane	50.0	54.3		ug/L		109	76 - 126
1,1,1-Dichloropropene	50.0	49.8		ug/L		100	80 - 120
Ethylbenzene	50.0	54.5		ug/L		109	80 - 120
Hexachlorobutadiene	50.0	46.9		ug/L		94	60 - 140
2-Hexanone	250	229		ug/L		92	74 - 127
Iodomethane	50.0	51.0		ug/L		102	52 - 142
Isopropylbenzene	50.0	55.4		ug/L		111	80 - 120
Methylene Chloride	50.0	50.0		ug/L		100	80 - 120
4-Methyl-2-pentanone	250	232		ug/L		93	76 - 124
Methyl tert-butyl ether	50.0	47.3		ug/L		95	80 - 120
m-Xylene & p-Xylene	50.0	53.5		ug/L		107	80 - 120
Naphthalene	50.0	52.5		ug/L		105	59 - 140
n-Butylbenzene	50.0	50.0		ug/L		100	80 - 120
N-Propylbenzene	50.0	55.2		ug/L		110	80 - 120
o-Xylene	50.0	53.5		ug/L		107	80 - 120
p-Isopropyltoluene	50.0	51.3		ug/L		103	80 - 120
sec-Butylbenzene	50.0	54.7		ug/L		109	80 - 120
Styrene	50.0	53.3		ug/L		107	80 - 120
tert-Butylbenzene	50.0	54.2		ug/L		108	80 - 121
1,1,1,2-Tetrachloroethane	50.0	57.5		ug/L		115	80 - 121
1,1,2,2-Tetrachloroethane	50.0	52.4		ug/L		105	80 - 120
Tetrachloroethylene	50.0	54.3		ug/L		109	80 - 121
Toluene	50.0	49.1		ug/L		98	80 - 113
trans-1,4-Dichloro-2-butene	50.0	50.6		ug/L		101	68 - 125
trans-1,2-Dichloroethene	50.0	52.0		ug/L		104	80 - 120
trans-1,3-Dichloropropene	50.0	47.6		ug/L		95	80 - 120
1,2,3-Trichlorobenzene	50.0	47.2		ug/L		94	61 - 141
1,2,4-Trichlorobenzene	50.0	47.2		ug/L		94	68 - 128
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: LCS 680-549967/4

Matrix: Water

Analysis Batch: 549967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	49.8		ug/L		100	80 - 120
Trichloroethene	50.0	51.0		ug/L		102	80 - 120
Trichlorofluoromethane	50.0	54.1		ug/L		108	60 - 141
1,2,3-Trichloropropane	50.0	56.9		ug/L		114	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.3		ug/L		109	79 - 124
1,2,4-Trimethylbenzene	50.0	51.4		ug/L		103	80 - 120
1,3,5-Trimethylbenzene	50.0	52.8		ug/L		106	80 - 120
Vinyl acetate	100	101		ug/L		101	67 - 135
Vinyl chloride	50.0	48.1		ug/L		96	71 - 128
Xylenes, Total	100	107		ug/L		107	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	92		73 - 131
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: LCSD 680-549967/5

Matrix: Water

Analysis Batch: 549967

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	219		ug/L		88	70 - 135	6	30
Acrylonitrile	500	432		ug/L		86	80 - 123	1	20
Benzene	50.0	47.6		ug/L		95	80 - 120	3	20
Bromobenzene	50.0	53.7		ug/L		107	80 - 121	2	20
Bromochloromethane	50.0	47.1		ug/L		94	80 - 120	4	20
Bromodichloromethane	50.0	45.5		ug/L		91	80 - 120	3	20
Bromoform	50.0	42.6		ug/L		85	74 - 126	1	20
Bromomethane	50.0	57.5		ug/L		115	62 - 130	0	20
2-Butanone (MEK)	250	206		ug/L		82	80 - 131	10	20
Carbon disulfide	50.0	49.2		ug/L		98	80 - 120	1	20
Carbon tetrachloride	50.0	49.8		ug/L		100	76 - 123	1	20
Chlorobenzene	50.0	53.2		ug/L		106	80 - 120	2	20
Chloroethane	50.0	46.5		ug/L		93	66 - 135	5	20
Chloroform	50.0	47.7		ug/L		95	80 - 120	4	20
Chloromethane	50.0	46.4		ug/L		93	69 - 131	0	30
2-Chlorotoluene	50.0	54.8		ug/L		110	80 - 120	0	20
4-Chlorotoluene	50.0	54.4		ug/L		109	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	45.3		ug/L		91	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	47.2		ug/L		94	80 - 120	2	20
Dibromochloromethane	50.0	48.1		ug/L		96	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	47.1		ug/L		94	71 - 134	2	20
1,2-Dibromoethane	50.0	51.0		ug/L		102	80 - 120	3	20
Dibromomethane	50.0	48.5		ug/L		97	80 - 120	2	20
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120	1	20
1,3-Dichlorobenzene	50.0	53.9		ug/L		108	80 - 120	1	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: LCSD 680-549967/5

Matrix: Water

Analysis Batch: 549967

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
1,4-Dichlorobenzene	50.0	52.2		ug/L		104	80 - 120	1	20
Dichlorodifluoromethane	50.0	52.8		ug/L		106	47 - 155	1	40
1,1-Dichloroethane	50.0	47.1		ug/L		94	80 - 120	0	20
1,2-Dichloroethane	50.0	46.1		ug/L		92	80 - 120	2	50
1,1-Dichloroethene	50.0	53.1		ug/L		106	76 - 120	2	20
1,2-Dichloropropane	50.0	46.9		ug/L		94	80 - 120	2	20
1,3-Dichloropropane	50.0	47.8		ug/L		96	80 - 120	3	20
2,2-Dichloropropane	50.0	53.5		ug/L		107	76 - 126	2	20
1,1-Dichloropropene	50.0	49.7		ug/L		99	80 - 120	0	20
Ethylbenzene	50.0	54.5		ug/L		109	80 - 120	0	20
Hexachlorobutadiene	50.0	47.9		ug/L		96	60 - 140	2	20
2-Hexanone	250	223		ug/L		89	74 - 127	3	20
Iodomethane	50.0	51.0		ug/L		102	52 - 142	0	30
Isopropylbenzene	50.0	55.7		ug/L		111	80 - 120	0	20
Methylene Chloride	50.0	46.3		ug/L		93	80 - 120	8	20
4-Methyl-2-pentanone	250	226		ug/L		90	76 - 124	3	20
Methyl tert-butyl ether	50.0	46.8		ug/L		94	80 - 120	1	20
m-Xylene & p-Xylene	50.0	54.3		ug/L		109	80 - 120	1	20
Naphthalene	50.0	52.3		ug/L		105	59 - 140	1	20
n-Butylbenzene	50.0	51.6		ug/L		103	80 - 120	3	20
N-Propylbenzene	50.0	55.6		ug/L		111	80 - 120	1	20
o-Xylene	50.0	53.6		ug/L		107	80 - 120	0	30
p-Isopropyltoluene	50.0	52.3		ug/L		105	80 - 120	2	20
sec-Butylbenzene	50.0	56.0		ug/L		112	80 - 120	2	20
Styrene	50.0	52.2		ug/L		104	80 - 120	2	20
tert-Butylbenzene	50.0	54.8		ug/L		110	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	57.4		ug/L		115	80 - 121	0	20
1,1,2,2-Tetrachloroethane	50.0	51.6		ug/L		103	80 - 120	1	20
Tetrachloroethylene	50.0	55.8		ug/L		112	80 - 121	3	20
Toluene	50.0	49.8		ug/L		100	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	48.1		ug/L		96	68 - 125	5	30
trans-1,2-Dichloroethene	50.0	50.2		ug/L		100	80 - 120	4	20
trans-1,3-Dichloropropene	50.0	46.6		ug/L		93	80 - 120	2	30
1,2,3-Trichlorobenzene	50.0	46.4		ug/L		93	61 - 141	2	20
1,2,4-Trichlorobenzene	50.0	46.5		ug/L		93	68 - 128	2	20
1,1,1-Trichloroethane	50.0	50.4		ug/L		101	80 - 120	1	20
1,1,2-Trichloroethane	50.0	48.9		ug/L		98	80 - 120	2	20
Trichloroethene	50.0	50.7		ug/L		101	80 - 120	1	20
Trichlorofluoromethane	50.0	54.1		ug/L		108	60 - 141	0	20
1,2,3-Trichloropropane	50.0	56.5		ug/L		113	80 - 123	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.1		ug/L		112	79 - 124	3	20
1,2,4-Trimethylbenzene	50.0	52.1		ug/L		104	80 - 120	1	20
1,3,5-Trimethylbenzene	50.0	53.9		ug/L		108	80 - 120	2	20
Vinyl acetate	100	98.5		ug/L		99	67 - 135	3	20
Vinyl chloride	50.0	48.4		ug/L		97	71 - 128	1	20
Xylenes, Total	100	108		ug/L		108	80 - 120	1	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: LCSD 680-549967/5

Matrix: Water

Analysis Batch: 549967

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	98		80 - 122
1,2-Dichloroethane-d4 (Surr)	89		73 - 131
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: MB 680-550000/9

Matrix: Water

Analysis Batch: 550000

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/04/18 12:23	1
Acrylonitrile	10	U	20	10	ug/L			12/04/18 12:23	1
Benzene	0.43	U	1.0	0.43	ug/L			12/04/18 12:23	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/04/18 12:23	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/04/18 12:23	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/04/18 12:23	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/04/18 12:23	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/04/18 12:23	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/04/18 12:23	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/04/18 12:23	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/04/18 12:23	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/04/18 12:23	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/04/18 12:23	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/04/18 12:23	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/04/18 12:23	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/04/18 12:23	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/04/18 12:23	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/04/18 12:23	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/04/18 12:23	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/04/18 12:23	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/04/18 12:23	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/04/18 12:23	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/04/18 12:23	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/04/18 12:23	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/04/18 12:23	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/04/18 12:23	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/04/18 12:23	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/04/18 12:23	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/04/18 12:23	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/04/18 12:23	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/04/18 12:23	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/04/18 12:23	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/04/18 12:23	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/04/18 12:23	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/04/18 12:23	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/04/18 12:23	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/04/18 12:23	1
Iodomethane	5.0	U	10	5.0	ug/L			12/04/18 12:23	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: MB 680-550000/9

Matrix: Water

Analysis Batch: 550000

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/04/18 12:23	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/04/18 12:23	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/04/18 12:23	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/04/18 12:23	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/04/18 12:23	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/04/18 12:23	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 12:23	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/04/18 12:23	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/04/18 12:23	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/04/18 12:23	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/04/18 12:23	1
Styrene	0.27	U	1.0	0.27	ug/L			12/04/18 12:23	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/04/18 12:23	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 12:23	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/04/18 12:23	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/04/18 12:23	1
Toluene	0.48	U	1.0	0.48	ug/L			12/04/18 12:23	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/04/18 12:23	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/04/18 12:23	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/04/18 12:23	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 12:23	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/04/18 12:23	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/04/18 12:23	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/04/18 12:23	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/04/18 12:23	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/04/18 12:23	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/04/18 12:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/04/18 12:23	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/04/18 12:23	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/04/18 12:23	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/04/18 12:23	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/04/18 12:23	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/04/18 12:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		12/04/18 12:23	1
Dibromofluoromethane (Surr)	103		80 - 122		12/04/18 12:23	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		12/04/18 12:23	1
Toluene-d8 (Surr)	103		80 - 120		12/04/18 12:23	1

Lab Sample ID: LCS 680-550000/3

Matrix: Water

Analysis Batch: 550000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	236		ug/L		94	70 - 135
Acrylonitrile	500	507		ug/L		101	80 - 123
Benzene	50.0	52.7		ug/L		105	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: LCS 680-550000/3

Matrix: Water

Analysis Batch: 550000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	51.5		ug/L		103	80 - 121
Bromochloromethane	50.0	54.9		ug/L		110	80 - 120
Bromodichloromethane	50.0	51.2		ug/L		102	80 - 120
Bromoform	50.0	51.8		ug/L		104	74 - 126
Bromomethane	50.0	50.6		ug/L		101	62 - 130
2-Butanone (MEK)	250	249		ug/L		99	80 - 131
Carbon disulfide	50.0	55.5		ug/L		111	80 - 120
Carbon tetrachloride	50.0	54.2		ug/L		108	76 - 123
Chlorobenzene	50.0	51.3		ug/L		103	80 - 120
Chloroethane	50.0	47.6		ug/L		95	66 - 135
Chloroform	50.0	51.2		ug/L		102	80 - 120
Chloromethane	50.0	51.4		ug/L		103	69 - 131
2-Chlorotoluene	50.0	52.7		ug/L		105	80 - 120
4-Chlorotoluene	50.0	51.5		ug/L		103	80 - 120
cis-1,2-Dichloroethene	50.0	52.4		ug/L		105	80 - 120
cis-1,3-Dichloropropene	50.0	54.1		ug/L		108	80 - 120
Dibromochloromethane	50.0	51.0		ug/L		102	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	48.4		ug/L		97	71 - 134
1,2-Dibromoethane	50.0	51.6		ug/L		103	80 - 120
Dibromomethane	50.0	51.9		ug/L		104	80 - 120
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120
1,3-Dichlorobenzene	50.0	51.6		ug/L		103	80 - 120
1,4-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 120
Dichlorodifluoromethane	50.0	55.5		ug/L		111	47 - 155
1,1-Dichloroethane	50.0	53.1		ug/L		106	80 - 120
1,2-Dichloroethane	50.0	52.5		ug/L		105	80 - 120
1,1-Dichloroethene	50.0	52.3		ug/L		105	76 - 120
1,2-Dichloropropane	50.0	53.4		ug/L		107	80 - 120
1,3-Dichloropropane	50.0	51.7		ug/L		103	80 - 120
2,2-Dichloropropane	50.0	52.4		ug/L		105	76 - 126
1,1-Dichloropropene	50.0	54.8		ug/L		110	80 - 120
Ethylbenzene	50.0	52.0		ug/L		104	80 - 120
Hexachlorobutadiene	50.0	53.2		ug/L		106	60 - 140
2-Hexanone	250	238		ug/L		95	74 - 127
Iodomethane	50.0	55.4		ug/L		111	52 - 142
Isopropylbenzene	50.0	52.8		ug/L		106	80 - 120
Methylene Chloride	50.0	51.4		ug/L		103	80 - 120
4-Methyl-2-pentanone	250	251		ug/L		101	76 - 124
Methyl tert-butyl ether	50.0	50.9		ug/L		102	80 - 120
m-Xylene & p-Xylene	50.0	52.1		ug/L		104	80 - 120
Naphthalene	50.0	49.7		ug/L		99	59 - 140
n-Butylbenzene	50.0	53.4		ug/L		107	80 - 120
N-Propylbenzene	50.0	52.0		ug/L		104	80 - 120
o-Xylene	50.0	51.7		ug/L		103	80 - 120
p-Isopropyltoluene	50.0	52.5		ug/L		105	80 - 120
sec-Butylbenzene	50.0	53.1		ug/L		106	80 - 120
Styrene	50.0	51.3		ug/L		103	80 - 120
tert-Butylbenzene	50.0	52.8		ug/L		106	80 - 121

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: LCS 680-550000/3

Matrix: Water

Analysis Batch: 550000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.4		ug/L		105	80 - 121
1,1,2,2-Tetrachloroethane	50.0	47.2		ug/L		94	80 - 120
Tetrachloroethylene	50.0	54.7		ug/L		109	80 - 121
Toluene	50.0	52.9		ug/L		106	80 - 113
trans-1,4-Dichloro-2-butene	50.0	47.5		ug/L		95	68 - 125
trans-1,2-Dichloroethene	50.0	52.4		ug/L		105	80 - 120
trans-1,3-Dichloropropene	50.0	52.9		ug/L		106	80 - 120
1,2,3-Trichlorobenzene	50.0	50.6		ug/L		101	61 - 141
1,2,4-Trichlorobenzene	50.0	51.1		ug/L		102	68 - 128
1,1,1-Trichloroethane	50.0	52.8		ug/L		106	80 - 120
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	80 - 120
Trichloroethene	50.0	53.4		ug/L		107	80 - 120
Trichlorofluoromethane	50.0	57.0		ug/L		114	60 - 141
1,2,3-Trichloropropane	50.0	48.2		ug/L		96	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.2		ug/L		116	79 - 124
1,2,4-Trimethylbenzene	50.0	51.3		ug/L		103	80 - 120
1,3,5-Trimethylbenzene	50.0	51.0		ug/L		102	80 - 120
Vinyl acetate	100	108		ug/L		108	67 - 135
Vinyl chloride	50.0	54.7		ug/L		109	71 - 128
Xylenes, Total	100	104		ug/L		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	105		80 - 122
1,2-Dichloroethane-d4 (Surr)	101		73 - 131
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: LCSD 680-550000/4

Matrix: Water

Analysis Batch: 550000

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	229		ug/L		92	70 - 135	3	30
Acrylonitrile	500	490		ug/L		98	80 - 123	3	20
Benzene	50.0	53.4		ug/L		107	80 - 120	1	20
Bromobenzene	50.0	52.3		ug/L		105	80 - 121	2	20
Bromochloromethane	50.0	52.7		ug/L		105	80 - 120	4	20
Bromodichloromethane	50.0	51.3		ug/L		103	80 - 120	0	20
Bromoform	50.0	51.2		ug/L		102	74 - 126	1	20
Bromomethane	50.0	52.0		ug/L		104	62 - 130	3	20
2-Butanone (MEK)	250	248		ug/L		99	80 - 131	0	20
Carbon disulfide	50.0	56.1		ug/L		112	80 - 120	1	20
Carbon tetrachloride	50.0	55.7		ug/L		111	76 - 123	3	20
Chlorobenzene	50.0	52.5		ug/L		105	80 - 120	2	20
Chloroethane	50.0	49.8		ug/L		100	66 - 135	5	20
Chloroform	50.0	52.0		ug/L		104	80 - 120	2	20
Chloromethane	50.0	53.2		ug/L		106	69 - 131	3	30

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: LCSD 680-550000/4

Matrix: Water

Analysis Batch: 550000

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	50.0	52.9		ug/L		106	80 - 120	0	20
4-Chlorotoluene	50.0	52.6		ug/L		105	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	52.2		ug/L		104	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	53.7		ug/L		107	80 - 120	1	20
Dibromochloromethane	50.0	51.1		ug/L		102	80 - 121	0	20
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/L		95	71 - 134	2	20
1,2-Dibromoethane	50.0	52.2		ug/L		104	80 - 120	1	20
Dibromomethane	50.0	51.2		ug/L		102	80 - 120	1	20
1,2-Dichlorobenzene	50.0	52.1		ug/L		104	80 - 120	1	20
1,3-Dichlorobenzene	50.0	53.1		ug/L		106	80 - 120	3	20
1,4-Dichlorobenzene	50.0	52.4		ug/L		105	80 - 120	3	20
Dichlorodifluoromethane	50.0	57.6		ug/L		115	47 - 155	4	40
1,1-Dichloroethane	50.0	54.0		ug/L		108	80 - 120	2	20
1,2-Dichloroethane	50.0	52.4		ug/L		105	80 - 120	0	50
1,1-Dichloroethene	50.0	55.1		ug/L		110	76 - 120	5	20
1,2-Dichloropropane	50.0	53.7		ug/L		107	80 - 120	1	20
1,3-Dichloropropane	50.0	51.8		ug/L		104	80 - 120	0	20
2,2-Dichloropropane	50.0	53.6		ug/L		107	76 - 126	2	20
1,1-Dichloropropene	50.0	55.6		ug/L		111	80 - 120	2	20
Ethylbenzene	50.0	53.3		ug/L		107	80 - 120	2	20
Hexachlorobutadiene	50.0	54.5		ug/L		109	60 - 140	2	20
2-Hexanone	250	243		ug/L		97	74 - 127	2	20
Iodomethane	50.0	54.5		ug/L		109	52 - 142	2	30
Isopropylbenzene	50.0	53.6		ug/L		107	80 - 120	1	20
Methylene Chloride	50.0	51.2		ug/L		102	80 - 120	1	20
4-Methyl-2-pentanone	250	250		ug/L		100	76 - 124	0	20
Methyl tert-butyl ether	50.0	50.8		ug/L		102	80 - 120	0	20
m-Xylene & p-Xylene	50.0	52.9		ug/L		106	80 - 120	2	20
Naphthalene	50.0	49.9		ug/L		100	59 - 140	0	20
n-Butylbenzene	50.0	54.9		ug/L		110	80 - 120	3	20
N-Propylbenzene	50.0	53.2		ug/L		106	80 - 120	2	20
o-Xylene	50.0	52.7		ug/L		105	80 - 120	2	30
p-Isopropyltoluene	50.0	54.0		ug/L		108	80 - 120	3	20
sec-Butylbenzene	50.0	53.9		ug/L		108	80 - 120	1	20
Styrene	50.0	52.3		ug/L		105	80 - 120	2	20
tert-Butylbenzene	50.0	54.1		ug/L		108	80 - 121	2	20
1,1,1,2-Tetrachloroethane	50.0	53.0		ug/L		106	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	47.9		ug/L		96	80 - 120	2	20
Tetrachloroethylene	50.0	55.7		ug/L		111	80 - 121	2	20
Toluene	50.0	54.0		ug/L		108	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	47.3		ug/L		95	68 - 125	0	30
trans-1,2-Dichloroethene	50.0	53.2		ug/L		106	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	52.6		ug/L		105	80 - 120	0	30
1,2,3-Trichlorobenzene	50.0	51.4		ug/L		103	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	52.9		ug/L		106	68 - 128	3	20
1,1,1-Trichloroethane	50.0	53.4		ug/L		107	80 - 120	1	20
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	80 - 120	1	20
Trichloroethene	50.0	54.4		ug/L		109	80 - 120	2	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: LCSD 680-550000/4

Matrix: Water

Analysis Batch: 550000

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
Trichlorofluoromethane	50.0	59.2		ug/L		118	60 - 141	4	20
1,2,3-Trichloropropane	50.0	48.5		ug/L		97	80 - 123	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	59.2		ug/L		118	79 - 124	2	20
1,2,4-Trimethylbenzene	50.0	52.5		ug/L		105	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	52.6		ug/L		105	80 - 120	3	20
Vinyl acetate	100	108		ug/L		108	67 - 135	0	20
Vinyl chloride	50.0	56.7		ug/L		113	71 - 128	4	20
Xylenes, Total	100	106		ug/L		106	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	104		80 - 122
1,2-Dichloroethane-d4 (Surr)	100		73 - 131
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: MB 680-550148/9

Matrix: Water

Analysis Batch: 550148

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			12/05/18 10:35	1
Acrylonitrile	10	U	20	10	ug/L			12/05/18 10:35	1
Benzene	0.43	U	1.0	0.43	ug/L			12/05/18 10:35	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			12/05/18 10:35	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			12/05/18 10:35	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			12/05/18 10:35	1
Bromoform	0.43	U	1.0	0.43	ug/L			12/05/18 10:35	1
Bromomethane	2.5	U	5.0	2.5	ug/L			12/05/18 10:35	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			12/05/18 10:35	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			12/05/18 10:35	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			12/05/18 10:35	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			12/05/18 10:35	1
Chloroethane	2.5	U	5.0	2.5	ug/L			12/05/18 10:35	1
Chloroform	0.50	U	1.0	0.50	ug/L			12/05/18 10:35	1
Chloromethane	0.40	U	1.0	0.40	ug/L			12/05/18 10:35	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			12/05/18 10:35	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			12/05/18 10:35	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			12/05/18 10:35	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			12/05/18 10:35	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/05/18 10:35	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			12/05/18 10:35	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			12/05/18 10:35	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			12/05/18 10:35	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			12/05/18 10:35	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/05/18 10:35	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			12/05/18 10:35	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			12/05/18 10:35	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: MB 680-550148/9

Matrix: Water

Analysis Batch: 550148

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/05/18 10:35	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			12/05/18 10:35	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			12/05/18 10:35	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			12/05/18 10:35	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			12/05/18 10:35	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			12/05/18 10:35	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			12/05/18 10:35	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			12/05/18 10:35	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			12/05/18 10:35	1
2-Hexanone	2.0	U	10	2.0	ug/L			12/05/18 10:35	1
Iodomethane	5.0	U	10	5.0	ug/L			12/05/18 10:35	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			12/05/18 10:35	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			12/05/18 10:35	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			12/05/18 10:35	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			12/05/18 10:35	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			12/05/18 10:35	1
Naphthalene	2.5	U	5.0	2.5	ug/L			12/05/18 10:35	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			12/05/18 10:35	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			12/05/18 10:35	1
o-Xylene	0.23	U	1.0	0.23	ug/L			12/05/18 10:35	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			12/05/18 10:35	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			12/05/18 10:35	1
Styrene	0.27	U	1.0	0.27	ug/L			12/05/18 10:35	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			12/05/18 10:35	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/05/18 10:35	1
1,1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			12/05/18 10:35	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			12/05/18 10:35	1
Toluene	0.48	U	1.0	0.48	ug/L			12/05/18 10:35	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			12/05/18 10:35	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			12/05/18 10:35	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			12/05/18 10:35	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/05/18 10:35	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			12/05/18 10:35	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			12/05/18 10:35	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			12/05/18 10:35	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			12/05/18 10:35	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			12/05/18 10:35	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			12/05/18 10:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			12/05/18 10:35	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			12/05/18 10:35	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			12/05/18 10:35	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			12/05/18 10:35	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			12/05/18 10:35	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			12/05/18 10:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		12/05/18 10:35	1
Dibromofluoromethane (Surr)	95		80 - 122		12/05/18 10:35	1

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: MB 680-550148/9

Matrix: Water

Analysis Batch: 550148

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		12/05/18 10:35	1
Toluene-d8 (Surr)	97		80 - 120		12/05/18 10:35	1

Lab Sample ID: LCS 680-550148/4

Matrix: Water

Analysis Batch: 550148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	269		ug/L		107	70 - 135
Acrylonitrile	500	521		ug/L		104	80 - 123
Benzene	50.0	49.4		ug/L		99	80 - 120
Bromobenzene	50.0	55.4		ug/L		111	80 - 121
Bromochloromethane	50.0	52.8		ug/L		106	80 - 120
Bromodichloromethane	50.0	49.5		ug/L		99	80 - 120
Bromoform	50.0	55.3		ug/L		111	74 - 126
Bromomethane	50.0	36.0	E	ug/L		72	62 - 130
2-Butanone (MEK)	250	264		ug/L		105	80 - 131
Carbon disulfide	50.0	52.8		ug/L		106	80 - 120
Carbon tetrachloride	50.0	55.1		ug/L		110	76 - 123
Chlorobenzene	50.0	51.8		ug/L		104	80 - 120
Chloroethane	50.0	57.3		ug/L		115	66 - 135
Chloroform	50.0	49.4		ug/L		99	80 - 120
Chloromethane	50.0	50.1		ug/L		100	69 - 131
2-Chlorotoluene	50.0	49.9		ug/L		100	80 - 120
4-Chlorotoluene	50.0	51.2		ug/L		102	80 - 120
cis-1,2-Dichloroethene	50.0	46.4		ug/L		93	80 - 120
cis-1,3-Dichloropropene	50.0	50.1		ug/L		100	80 - 120
Dibromochloromethane	50.0	52.1		ug/L		104	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	53.3		ug/L		107	71 - 134
1,2-Dibromoethane	50.0	52.2		ug/L		104	80 - 120
Dibromomethane	50.0	51.9		ug/L		104	80 - 120
1,2-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 120
1,3-Dichlorobenzene	50.0	50.9		ug/L		102	80 - 120
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120
Dichlorodifluoromethane	50.0	49.2		ug/L		98	47 - 155
1,1-Dichloroethane	50.0	49.5		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	52.6		ug/L		105	80 - 120
1,1-Dichloroethene	50.0	51.3		ug/L		103	76 - 120
1,2-Dichloropropane	50.0	48.7		ug/L		97	80 - 120
1,3-Dichloropropane	50.0	49.4		ug/L		99	80 - 120
2,2-Dichloropropane	50.0	53.5		ug/L		107	76 - 126
1,1-Dichloropropene	50.0	51.3		ug/L		103	80 - 120
Ethylbenzene	50.0	51.9		ug/L		104	80 - 120
Hexachlorobutadiene	50.0	48.0		ug/L		96	60 - 140
2-Hexanone	250	259		ug/L		104	74 - 127
Iodomethane	50.0	52.9		ug/L		106	52 - 142
Isopropylbenzene	50.0	52.4		ug/L		105	80 - 120
Methylene Chloride	50.0	46.1		ug/L		92	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: LCS 680-550148/4

Matrix: Water

Analysis Batch: 550148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone	250	250		ug/L		100	76 - 124
Methyl tert-butyl ether	50.0	50.1		ug/L		100	80 - 120
m-Xylene & p-Xylene	50.0	50.8		ug/L		102	80 - 120
Naphthalene	50.0	46.7		ug/L		93	59 - 140
n-Butylbenzene	50.0	44.1		ug/L		88	80 - 120
N-Propylbenzene	50.0	50.9		ug/L		102	80 - 120
o-Xylene	50.0	50.9		ug/L		102	80 - 120
p-Isopropyltoluene	50.0	46.9		ug/L		94	80 - 120
sec-Butylbenzene	50.0	49.3		ug/L		99	80 - 120
Styrene	50.0	53.1		ug/L		106	80 - 120
tert-Butylbenzene	50.0	51.6		ug/L		103	80 - 121
1,1,1,2-Tetrachloroethane	50.0	52.6		ug/L		105	80 - 121
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/L		102	80 - 120
Tetrachloroethylene	50.0	56.7		ug/L		113	80 - 121
Toluene	50.0	51.3		ug/L		103	80 - 113
trans-1,4-Dichloro-2-butene	50.0	50.6		ug/L		101	68 - 125
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	80 - 120
trans-1,3-Dichloropropene	50.0	51.1		ug/L		102	80 - 120
1,2,3-Trichlorobenzene	50.0	47.5		ug/L		95	61 - 141
1,2,4-Trichlorobenzene	50.0	48.5		ug/L		97	68 - 128
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	50.6		ug/L		101	80 - 120
Trichloroethene	50.0	47.1		ug/L		94	80 - 120
Trichlorofluoromethane	50.0	58.8		ug/L		118	60 - 141
1,2,3-Trichloropropane	50.0	53.3		ug/L		107	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.5		ug/L		111	79 - 124
1,2,4-Trimethylbenzene	50.0	50.0		ug/L		100	80 - 120
1,3,5-Trimethylbenzene	50.0	50.6		ug/L		101	80 - 120
Vinyl acetate	100	94.8		ug/L		95	67 - 135
Vinyl chloride	50.0	52.2		ug/L		104	71 - 128
Xylenes, Total	100	102		ug/L		102	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	97		80 - 122
1,2-Dichloroethane-d4 (Surr)	96		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 680-550148/5

Matrix: Water

Analysis Batch: 550148

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	70 - 135	4	30
Acrylonitrile	500	516		ug/L		103	80 - 123	1	20
Benzene	50.0	51.1		ug/L		102	80 - 120	3	20
Bromobenzene	50.0	57.6		ug/L		115	80 - 121	4	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: LCSD 680-550148/5

Matrix: Water

Analysis Batch: 550148

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
Bromochloromethane	50.0	54.8		ug/L		110	80 - 120	4	20
Bromodichloromethane	50.0	52.0		ug/L		104	80 - 120	5	20
Bromoform	50.0	57.1		ug/L		114	74 - 126	3	20
Bromomethane	50.0	37.4	E	ug/L		75	62 - 130	4	20
2-Butanone (MEK)	250	255		ug/L		102	80 - 131	3	20
Carbon disulfide	50.0	51.8		ug/L		104	80 - 120	2	20
Carbon tetrachloride	50.0	53.7		ug/L		107	76 - 123	3	20
Chlorobenzene	50.0	53.8		ug/L		108	80 - 120	4	20
Chloroethane	50.0	56.1		ug/L		112	66 - 135	2	20
Chloroform	50.0	50.7		ug/L		101	80 - 120	3	20
Chloromethane	50.0	48.8		ug/L		98	69 - 131	3	30
2-Chlorotoluene	50.0	51.6		ug/L		103	80 - 120	3	20
4-Chlorotoluene	50.0	53.7		ug/L		107	80 - 120	5	20
cis-1,2-Dichloroethene	50.0	47.7		ug/L		95	80 - 120	3	20
cis-1,3-Dichloropropene	50.0	51.9		ug/L		104	80 - 120	4	20
Dibromochloromethane	50.0	54.3		ug/L		109	80 - 121	4	20
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/L		106	71 - 134	0	20
1,2-Dibromoethane	50.0	54.2		ug/L		108	80 - 120	4	20
Dibromomethane	50.0	54.4		ug/L		109	80 - 120	5	20
1,2-Dichlorobenzene	50.0	51.9		ug/L		104	80 - 120	4	20
1,3-Dichlorobenzene	50.0	52.8		ug/L		106	80 - 120	4	20
1,4-Dichlorobenzene	50.0	51.8		ug/L		104	80 - 120	5	20
Dichlorodifluoromethane	50.0	44.4		ug/L		89	47 - 155	10	40
1,1-Dichloroethane	50.0	50.1		ug/L		100	80 - 120	1	20
1,2-Dichloroethane	50.0	53.9		ug/L		108	80 - 120	3	50
1,1-Dichloroethene	50.0	50.0		ug/L		100	76 - 120	3	20
1,2-Dichloropropane	50.0	51.8		ug/L		104	80 - 120	6	20
1,3-Dichloropropane	50.0	51.9		ug/L		104	80 - 120	5	20
2,2-Dichloropropane	50.0	53.0		ug/L		106	76 - 126	1	20
1,1-Dichloropropene	50.0	51.0		ug/L		102	80 - 120	1	20
Ethylbenzene	50.0	53.2		ug/L		106	80 - 120	2	20
Hexachlorobutadiene	50.0	49.6		ug/L		99	60 - 140	3	20
2-Hexanone	250	256		ug/L		103	74 - 127	1	20
Iodomethane	50.0	54.3		ug/L		109	52 - 142	3	30
Isopropylbenzene	50.0	53.5		ug/L		107	80 - 120	2	20
Methylene Chloride	50.0	48.5		ug/L		97	80 - 120	5	20
4-Methyl-2-pentanone	250	248		ug/L		99	76 - 124	1	20
Methyl tert-butyl ether	50.0	51.5		ug/L		103	80 - 120	3	20
m-Xylene & p-Xylene	50.0	53.1		ug/L		106	80 - 120	5	20
Naphthalene	50.0	48.0		ug/L		96	59 - 140	3	20
n-Butylbenzene	50.0	44.0		ug/L		88	80 - 120	0	20
N-Propylbenzene	50.0	52.9		ug/L		106	80 - 120	4	20
o-Xylene	50.0	52.5		ug/L		105	80 - 120	3	30
p-Isopropyltoluene	50.0	46.7		ug/L		93	80 - 120	0	20
sec-Butylbenzene	50.0	49.5		ug/L		99	80 - 120	0	20
Styrene	50.0	55.5		ug/L		111	80 - 120	4	20
tert-Butylbenzene	50.0	52.5		ug/L		105	80 - 121	2	20
1,1,1,2-Tetrachloroethane	50.0	56.0		ug/L		112	80 - 121	6	20

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

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

Lab Sample ID: LCSD 680-550148/5

Matrix: Water

Analysis Batch: 550148

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L		102	80 - 120	0	20
Tetrachloroethylene	50.0	56.5		ug/L		113	80 - 121	0	20
Toluene	50.0	51.8		ug/L		104	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	50.3		ug/L		101	68 - 125	0	30
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	80 - 120	4	20
trans-1,3-Dichloropropene	50.0	52.8		ug/L		106	80 - 120	3	30
1,2,3-Trichlorobenzene	50.0	49.8		ug/L		100	61 - 141	5	20
1,2,4-Trichlorobenzene	50.0	49.8		ug/L		100	68 - 128	3	20
1,1,1-Trichloroethane	50.0	52.1		ug/L		104	80 - 120	2	20
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	80 - 120	2	20
Trichloroethene	50.0	49.1		ug/L		98	80 - 120	4	20
Trichlorofluoromethane	50.0	55.8		ug/L		112	60 - 141	5	20
1,2,3-Trichloropropane	50.0	54.2		ug/L		108	80 - 123	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9		ug/L		102	79 - 124	9	20
1,2,4-Trimethylbenzene	50.0	51.5		ug/L		103	80 - 120	3	20
1,3,5-Trimethylbenzene	50.0	53.4		ug/L		107	80 - 120	5	20
Vinyl acetate	100	96.2		ug/L		96	67 - 135	1	20
Vinyl chloride	50.0	51.7		ug/L		103	71 - 128	1	20
Xylenes, Total	100	106		ug/L		106	80 - 120	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	102		80 - 122
1,2-Dichloroethane-d4 (Surr)	100		73 - 131
Toluene-d8 (Surr)	101		80 - 120

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-550009/8

Matrix: Water

Analysis Batch: 550009

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			12/04/18 11:31	1
Ethylene	0.50	U	1.0	0.50	ug/L			12/04/18 11:31	1
Methane	0.29	U	0.58	0.29	ug/L			12/04/18 11:31	1

Lab Sample ID: LCS 680-550009/3

Matrix: Water

Analysis Batch: 550009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	328		ug/L		114	75 - 125
Ethylene	269	300		ug/L		111	75 - 125
Methane	154	184		ug/L		120	75 - 125

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 680-550009/4

Matrix: Water

Analysis Batch: 550009

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	274		ug/L		95	75 - 125	18	30
Ethylene	269	253		ug/L		94	75 - 125	17	30
Methane	154	152		ug/L		99	75 - 125	19	30

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-550525/2

Matrix: Water

Analysis Batch: 550525

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			12/07/18 09:07	1

Lab Sample ID: LCS 680-550525/3

Matrix: Water

Analysis Batch: 550525

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	9.72		mg/L		97	87 - 112		

Lab Sample ID: LCSD 680-550525/4

Matrix: Water

Analysis Batch: 550525

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	9.85		mg/L		98	87 - 112	1	15

Lab Sample ID: 680-161411-14 DU

Matrix: Water

Analysis Batch: 550525

Client Sample ID: EB 122

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	0.40	U	mg/L				
								NC	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-550836/1-B

Matrix: Water

Analysis Batch: 551128

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 550839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		12/10/18 11:13	12/11/18 15:43	1

Lab Sample ID: LCS 680-550836/2-B

Matrix: Water

Analysis Batch: 551128

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 550839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Sodium	5000	4780		ug/L		96	80 - 120		

TestAmerica Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-550041/2

Matrix: Water

Analysis Batch: 550041

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			12/04/18 06:43	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			12/04/18 06:43	1

Lab Sample ID: LCS 680-550041/3

Matrix: Water

Analysis Batch: 550041

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	19.9		mg/L		99	80 - 120
Total Organic Carbon - Quad	20.0	19.9		mg/L		99	80 - 120
TOC Result 1	20.0	19.8		mg/L		99	80 - 120
TOC Result 2	20.0	19.8		mg/L		99	80 - 120
TOC Result 3	20.0	20.0		mg/L		100	80 - 120
TOC Result 4	20.0	20.0		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-550041/4

Matrix: Water

Analysis Batch: 550041

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	20.0	20.0		mg/L		100	80 - 120	1	25
Total Organic Carbon - Quad	20.0	20.0		mg/L		100	80 - 120	1	25
TOC Result 1	20.0	19.8		mg/L		99	80 - 120	0	25
TOC Result 2	20.0	20.0		mg/L		100	80 - 120	1	25
TOC Result 3	20.0	20.0		mg/L		100	80 - 120	0	25
TOC Result 4	20.0	20.3		mg/L		102	80 - 120	2	25

TestAmerica Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

GC/MS VOA

Analysis Batch: 549967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161411-1	OLF-G75 Screen 1	Total/NA	Water	8260B	
680-161411-2	OLF-G75 Screen 2	Total/NA	Water	8260B	
680-161411-3	OLF-G75 Screen 3	Total/NA	Water	8260B	
680-161411-4	OLF-G75 Screen 4	Total/NA	Water	8260B	
680-161411-5	OLF-G75 Screen 5	Total/NA	Water	8260B	
680-161411-6	OLF-G75 Screen 6	Total/NA	Water	8260B	
680-161411-7	OLF-G31	Total/NA	Water	8260B	
680-161411-8	OLF-G32	Total/NA	Water	8260B	
MB 680-549967/10	Method Blank	Total/NA	Water	8260B	
LCS 680-549967/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-549967/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 550000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161411-9	OLF-G22	Total/NA	Water	8260B	
680-161411-10	OLF-G47	Total/NA	Water	8260B	
680-161411-11	OLF-G70	Total/NA	Water	8260B	
680-161411-12	Dup 302	Total/NA	Water	8260B	
680-161411-13	MB 093	Total/NA	Water	8260B	
680-161411-14	EB 122	Total/NA	Water	8260B	
680-161411-15	TB 496	Total/NA	Water	8260B	
MB 680-550000/9	Method Blank	Total/NA	Water	8260B	
LCS 680-550000/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-550000/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 550148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161411-9	OLF-G22	Total/NA	Water	8260B	
MB 680-550148/9	Method Blank	Total/NA	Water	8260B	
LCS 680-550148/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-550148/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 550009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161411-13	MB 093	Total/NA	Water	RSK-175	
680-161411-14	EB 122	Total/NA	Water	RSK-175	
MB 680-550009/8	Method Blank	Total/NA	Water	RSK-175	
LCS 680-550009/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-550009/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 550525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161411-9	OLF-G22	Total/NA	Water	9056A	
680-161411-13	MB 093	Total/NA	Water	9056A	
680-161411-14	EB 122	Total/NA	Water	9056A	
MB 680-550525/2	Method Blank	Total/NA	Water	9056A	

TestAmerica Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

HPLC/IC (Continued)

Analysis Batch: 550525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-550525/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-550525/4	Lab Control Sample Dup	Total/NA	Water	9056A	
680-161411-14 DU	EB 122	Total/NA	Water	9056A	

Metals

Filtration Batch: 550836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161411-9	OLF-G22	Dissolved	Water	FILTRATION	
680-161411-13	MB 093	Dissolved	Water	FILTRATION	
680-161411-14	EB 122	Dissolved	Water	FILTRATION	
MB 680-550836/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-550836/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	

Prep Batch: 550839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161411-9	OLF-G22	Dissolved	Water	3005A	550836
680-161411-13	MB 093	Dissolved	Water	3005A	550836
680-161411-14	EB 122	Dissolved	Water	3005A	550836
MB 680-550836/1-B	Method Blank	Dissolved	Water	3005A	550836
LCS 680-550836/2-B	Lab Control Sample	Dissolved	Water	3005A	550836

Analysis Batch: 551128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161411-9	OLF-G22	Dissolved	Water	6010C	550839
680-161411-13	MB 093	Dissolved	Water	6010C	550839
680-161411-14	EB 122	Dissolved	Water	6010C	550839
MB 680-550836/1-B	Method Blank	Dissolved	Water	6010C	550839
LCS 680-550836/2-B	Lab Control Sample	Dissolved	Water	6010C	550839

General Chemistry

Analysis Batch: 550041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-161411-13	MB 093	Total/NA	Water	9060A	
680-161411-14	EB 122	Total/NA	Water	9060A	
MB 680-550041/2	Method Blank	Total/NA	Water	9060A	
LCS 680-550041/3	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-550041/4	Lab Control Sample Dup	Total/NA	Water	9060A	

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G75 Screen 1

Date Collected: 11/26/18 10:41

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549967	12/04/18 15:29	Y1S	TAL SAV
Instrument ID: CMSB										

Client Sample ID: OLF-G75 Screen 2

Date Collected: 11/26/18 12:41

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549967	12/04/18 15:53	Y1S	TAL SAV
Instrument ID: CMSB										

Client Sample ID: OLF-G75 Screen 3

Date Collected: 11/26/18 15:01

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549967	12/04/18 16:16	Y1S	TAL SAV
Instrument ID: CMSB										

Client Sample ID: OLF-G75 Screen 4

Date Collected: 11/27/18 12:46

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549967	12/04/18 16:39	Y1S	TAL SAV
Instrument ID: CMSB										

Client Sample ID: OLF-G75 Screen 5

Date Collected: 11/27/18 11:06

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549967	12/04/18 17:02	Y1S	TAL SAV
Instrument ID: CMSB										

Client Sample ID: OLF-G75 Screen 6

Date Collected: 11/27/18 09:46

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549967	12/04/18 17:25	Y1S	TAL SAV
Instrument ID: CMSB										

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: OLF-G31

Date Collected: 11/26/18 16:06

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549967	12/04/18 17:48	Y1S	TAL SAV
Instrument ID: CMSB										

Client Sample ID: OLF-G32

Date Collected: 11/26/18 14:46

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	549967	12/04/18 18:11	Y1S	TAL SAV
Instrument ID: CMSB										

Client Sample ID: OLF-G22

Date Collected: 11/27/18 10:36

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	550000	12/04/18 14:12	Y1S	TAL SAV
Instrument ID: CMSA2										
Total/NA	Analysis	8260B		1	5 mL	5 mL	550148	12/05/18 16:01	Y1S	TAL SAV
Instrument ID: CMSO2										
Total/NA	Analysis	9056A		1	5 mL	5 mL	550525	12/07/18 10:50	SMP	TAL SAV
Instrument ID: CICK										
Dissolved	Filtration	FILTRATION			50 mL	50 mL	550836	12/10/18 11:11	CDD	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	550839	12/10/18 11:13	CDD	TAL SAV
Dissolved	Analysis	6010C		1			551128	12/11/18 16:29	BCB	TAL SAV
Instrument ID: ICPE										

Client Sample ID: OLF-G47

Date Collected: 11/28/18 12:06

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	550000	12/04/18 14:33	Y1S	TAL SAV
Instrument ID: CMSA2										

Client Sample ID: OLF-G70

Date Collected: 11/26/18 10:51

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	550000	12/04/18 14:55	Y1S	TAL SAV
Instrument ID: CMSA2										

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: Dup 302

Date Collected: 11/28/18 00:00

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	550000	12/04/18 13:28	Y1S	TAL SAV
Instrument ID: CMSA2										

Client Sample ID: MB 093

Date Collected: 11/28/18 13:00

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	550000	12/04/18 13:50	Y1S	TAL SAV
Instrument ID: CMSA2										
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	550009	12/04/18 13:33	KAB	TAL SAV
Instrument ID: CVGU										
Total/NA	Analysis	9056A		1	5 mL	5 mL	550525	12/07/18 11:03	SMP	TAL SAV
Instrument ID: CICK										
Dissolved	Filtration	FILTRATION			50 mL	50 mL	550836	12/10/18 11:11	CDD	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	550839	12/10/18 11:13	CDD	TAL SAV
Dissolved	Analysis	6010C		1			551128	12/11/18 16:33	BCB	TAL SAV
Instrument ID: ICPE										
Total/NA	Analysis	9060A		1	40 mL	40 mL	550041	12/04/18 10:20	KDM	TAL SAV
Instrument ID: TOC7										

Client Sample ID: EB 122

Date Collected: 11/28/18 12:50

Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	550000	12/04/18 12:45	Y1S	TAL SAV
Instrument ID: CMSA2										
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	550009	12/04/18 13:45	KAB	TAL SAV
Instrument ID: CVGU										
Total/NA	Analysis	9056A		1	5 mL	5 mL	550525	12/07/18 11:16	SMP	TAL SAV
Instrument ID: CICK										
Dissolved	Filtration	FILTRATION			50 mL	50 mL	550836	12/10/18 11:11	CDD	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	550839	12/10/18 11:13	CDD	TAL SAV
Dissolved	Analysis	6010C		1			551128	12/11/18 16:37	BCB	TAL SAV
Instrument ID: ICPE										
Total/NA	Analysis	9060A		1	40 mL	40 mL	550041	12/04/18 10:38	KDM	TAL SAV
Instrument ID: TOC7										

TestAmerica Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Client Sample ID: TB 496
Date Collected: 11/28/18 13:30
Date Received: 11/29/18 09:42

Lab Sample ID: 680-161411-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	550000	12/04/18 13:07	Y1S	TAL SAV
Instrument ID: CMSA2										

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87052	06-30-19

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Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

TestAmerica Job ID: 680-161411-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (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
9060A	Organic Carbon, Total (TOC)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
FILTRATION	Sample Filtration	None	TAL SAV

Protocol References:

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 = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
 Lab Contact Jon Lawhon; Amy Ragnaldsen
 MES Contact Betty Van Pelt
 MES Phone 801-699-1246
 Project Parcel 80(6), Landfill 3
 Task # 18.094.19-05.2.500
 Lab contract: Q-2

Cooler ID 5529
 Page 2 of 2

Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	SW9056A Sulfate	SW6010C Sodium (dissolved, lab filtered)	SW8260B - VOC	RSK-175 - M,E,F	SW9060A - TOC	SW8260B - VOC TB
OLF-G75 Screen 1	NS	MW	Water	BP	11/26/18	10:41			X			
OLF-G75 Screen 2					11/26/18	12:41			X			
OLF-G75 Screen 3					11/26/18	15:01			X			
OLF-G75 Screen 4					11/27/18	12:46			X			
OLF-G75 Screen 5					11/27/18	11:06			X			
OLF-G75 Screen 6					11/27/18	09:46			X			
OLF-G75					11/26/18	16:06			X			
OLF-G75					11/26/18	14:46			X			
OLF-G75					11/27/18	10:34	X	X	X			
OLF-G75					11/28/18	12:06			X			
OLF-G75					11/26/18	10:51			X			
Dup 302	Dup	FD			11/28/18	12:18			X			
MB 093	MB	MB		Grab	11/28/18	13:00	X	X	X		X	
EB 122	EB	EB		Grab	11/28/18	12:50	X	X	X		X	
TB 496	TB	TB		Grab	11/28/18	13:30			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
 Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump
 White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature): [Signature]

Date/Time: 11/28/18 1600

Received by (Signature): Fedex

Date/Time: 11/28/18 942

Relinquished by (Signature): [Signature]

Date/Time: 11/28/18 942

Received by (Signature): [Signature]

Date/Time: 11/28/18 942

2.7

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
 Lab Contact Jon Lawhon; Amy Ragnaldsen
 MES Contact Betty Van Pelt
 MES Phone 801-699-1246
 Project Parcel 80(6), Landfill 3
 Task # 18.094.19-05.2.500
 Lab contract:

Cooler ID 5529
 Page 2 of 2

Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	SW9056A Sulfate	SW6010C Sodium (dissolved, lab filtered)	1-250 mL poly, none	SW8260B - VOC 3-40 mL vials, HCl	RSK-175 - M,E,E 3-40 mL vials, HCl	SW9060A - TOC 3-40 mL amber vials, H2SO4	SW8260B - VOC TB 2-40 mL vials, HCl
06F-G75 Screen 1	NS	MW	Water	BP	11/26/18	1041							
06F-G75 Screen 2					11/26/18	1241							
06F-G75 Screen 3					11/26/18	1501							
06F-G75 Screen 4					11/27/18	1246							
06F-G75 Screen 5					11/27/18	1106							
06F-G75 Screen 6					11/27/18	0946							
06F-G75 Screen 7					11/27/18	1606							
06F-G75 Screen 8					11/27/18	1446							
06F-G75 Screen 9					11/27/18	1036							
06F-G75 Screen 10					11/28/18	1206							
06F-G75 Screen 11					11/28/18	1051							
06F-G75 Screen 12					11/28/18	1300							
06F-G75 Screen 13					11/28/18	1250							
06F-G75 Screen 14					11/28/18	1330							
06F-G75 Screen 15													
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680-161411 Chain of Custody

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
 Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump
 White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
COMMENTS:
 See Task Order 093 for required list of VOCs and metals.
 Relinquished by (Signature): *[Signature]* Date/Time: 11/28/18 1600
 Received by (Signature): *Fedex*
 Relinquished by (Signature): *[Signature]* Date/Time: 11/28/18 1600
 Received by (Signature): *[Signature]* Date/Time: 11/28/18 1600

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-161411-1

Login Number: 161411

List Source: TestAmerica Savannah

List Number: 1

Creator: Elwell, Devin M

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	

ANALYTICAL REPORT

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

Laboratory Job ID: 680-168493-1
Client Project/Site: Parcel 80(6), Landfill 3

For:
Matrix Environmental Services, LLC
1601 Blake Street
Suite 200
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt



Authorized for release by:
5/28/2019 3:54:46 PM

Jon Lawhon, Project Manager I
(912)250-0283
jon.lawhon@testamericainc.com

LINKS

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results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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 80(6), Landfill 3

Job ID: 680-168493-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

GC VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit

Eurofins TestAmerica, Savannah

Definitions/Glossary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-168493-1	OLF-G72 Port 1	Water	05/02/19 10:20	05/03/19 09:03	
680-168493-2	OLF-G72 Port 2	Water	05/02/19 10:45	05/03/19 09:03	
680-168493-3	OLF-G72 Port 3	Water	05/02/19 10:55	05/03/19 09:03	
680-168493-4	OLF-G72 Port 4	Water	05/02/19 11:05	05/03/19 09:03	
680-168493-5	OLF-G72 Port 5	Water	05/02/19 11:25	05/03/19 09:03	
680-168493-6	OLF-G72 Port 6	Water	05/02/19 12:00	05/03/19 09:03	
680-168493-7	TB 527	Water	05/02/19 13:45	05/03/19 09:03	
680-168493-8	DUP 322	Water	05/01/19 00:00	05/03/19 09:03	

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Job ID: 680-168493-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC
Project: Parcel 80(6), Landfill 3

Report Number: 680-168493-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 5/3/2019 9:03 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.0° C and 4.1° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OLF-G72 Port 1 (680-168493-1), OLF-G72 Port 2 (680-168493-2), OLF-G72 Port 3 (680-168493-3), OLF-G72 Port 4 (680-168493-4), OLF-G72 Port 5 (680-168493-5), OLF-G72 Port 6 (680-168493-6), TB 527 (680-168493-7) and DUP 322 (680-168493-8) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/15/2019 and 05/16/2019.

The method blank for analytical batch 680-570605 contained 1,4-Dichlorobenzene, n-Butylbenzene, trans-1,2-Dichloroethene and Carbon disulfide above the method detection limit (MDL). Associated samples were not re-analyzed because results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

Several analytes were detected in method blank MB 680-570450/20 at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-570605.

The matrix spike and duplicate associated with job 680-168493 ran at the end of the batch behind a group of TCLP samples. The TCLP samples had matrix issues that carried over into the MS/MSD. As a result the MS/MSD failed low for surrogates and ISTD. There was insufficient holding time to reanalyze the spikes in hold. The batch LCS/LCSD met acceptance criteria.

Several analytes failed the recovery criteria low for the MS of sample OLF-G72 Port 1MS (680-168493-1) in batch 680-570605. Several analytes failed the recovery criteria high.

For the MSD of sample OLF-G72 Port 1MSD (680-168493-1) in batch 680-570605, Several analytes failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, Several analytes exceeded the RPD limit.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-570450 recovered outside control limits for the following analytes: 1,1,2-Trichloro-1,2,2-Trifluoroethane. These analytes were biased high in the LCS and were not detected in the associated samples; 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.

DISSOLVED GASES

Samples OLF-G72 Port 1 (680-168493-1), OLF-G72 Port 2 (680-168493-2), OLF-G72 Port 3 (680-168493-3), OLF-G72 Port 4 (680-168493-4), OLF-G72 Port 5 (680-168493-5) and OLF-G72 Port 6 (680-168493-6) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 05/14/2019.

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Job ID: 680-168493-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

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

METALS (ICP) - DISSOLVED

Samples OLF-G72 Port 1 (680-168493-1), OLF-G72 Port 2 (680-168493-2), OLF-G72 Port 3 (680-168493-3), OLF-G72 Port 4 (680-168493-4), OLF-G72 Port 5 (680-168493-5), OLF-G72 Port 6 (680-168493-6) and DUP 322 (680-168493-8) were analyzed for Metals (ICP) - Dissolved in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/08/2019 and 05/13/2019 and analyzed on 05/09/2019 and 05/14/2019.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples OLF-G72 Port 1 (680-168493-1), OLF-G72 Port 2 (680-168493-2), OLF-G72 Port 3 (680-168493-3), OLF-G72 Port 4 (680-168493-4), OLF-G72 Port 5 (680-168493-5), OLF-G72 Port 6 (680-168493-6) and DUP 322 (680-168493-8) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with SW 846 9056A. The samples were analyzed on 05/14/2019.

Sulfate failed the recovery criteria low for the MS/MSD of sample OLF-G72 Port 1 (680-168493-1) in batch 680-570216. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Sulfate failed the recovery criteria high for the MSD of sample OLF-G72 Port 2MSD (680-168493-2) in batch 680-570289. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Sulfate exceeded the RPD limit for the duplicate of sample OLF-G72 Port 3DU (680-168493-3).

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

TOTAL ORGANIC CARBON

Samples OLF-G72 Port 1 (680-168493-1), OLF-G72 Port 2 (680-168493-2), OLF-G72 Port 3 (680-168493-3), OLF-G72 Port 4 (680-168493-4), OLF-G72 Port 5 (680-168493-5), OLF-G72 Port 6 (680-168493-6) and DUP 322 (680-168493-8) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 05/09/2019.

Sample OLF-G72 Port 2 (680-168493-2) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional 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 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 1

Lab Sample ID: 680-168493-1

Date Collected: 05/02/19 10:20

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.6	J F2 F1	10	7.0	ug/L			05/16/19 14:57	1
Acrylonitrile	10	U F2 F1	20	10	ug/L			05/16/19 14:57	1
Benzene	1.2		1.0	0.43	ug/L			05/16/19 14:57	1
Bromobenzene	0.50	U F1	1.0	0.50	ug/L			05/16/19 14:57	1
Bromochloromethane	0.45	U F1	1.0	0.45	ug/L			05/16/19 14:57	1
Bromodichloromethane	0.44	U F1	1.0	0.44	ug/L			05/16/19 14:57	1
Bromoform	0.43	U F2 F1	1.0	0.43	ug/L			05/16/19 14:57	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/16/19 14:57	1
2-Butanone (MEK)	16	F2 F1	10	3.4	ug/L			05/16/19 14:57	1
Carbon disulfide	1.5	J B	2.0	1.0	ug/L			05/16/19 14:57	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/16/19 14:57	1
Chlorobenzene	51	F1	1.0	0.26	ug/L			05/16/19 14:57	1
Chloroethane	2.5	U F2	5.0	2.5	ug/L			05/16/19 14:57	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/16/19 14:57	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/16/19 14:57	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/16/19 14:57	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/16/19 14:57	1
cis-1,2-Dichloroethene	0.62	J	1.0	0.41	ug/L			05/16/19 14:57	1
cis-1,3-Dichloropropene	0.40	U F1	1.0	0.40	ug/L			05/16/19 14:57	1
Dibromochloromethane	0.32	U F2 F1	1.0	0.32	ug/L			05/16/19 14:57	1
1,2-Dibromo-3-Chloropropane	1.1	U F2 F1	5.0	1.1	ug/L			05/16/19 14:57	1
1,2-Dibromoethane	0.44	U F2 F1	1.0	0.44	ug/L			05/16/19 14:57	1
Dibromomethane	0.35	U F2 F1	1.0	0.35	ug/L			05/16/19 14:57	1
1,2-Dichlorobenzene	0.37	U F2 F1	1.0	0.37	ug/L			05/16/19 14:57	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/16/19 14:57	1
1,4-Dichlorobenzene	0.96	J B	1.0	0.46	ug/L			05/16/19 14:57	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/16/19 14:57	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/16/19 14:57	1
1,2-Dichloroethane	5.5	F1	1.0	0.50	ug/L			05/16/19 14:57	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/16/19 14:57	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/16/19 14:57	1
1,3-Dichloropropane	0.34	U F2 F1	1.0	0.34	ug/L			05/16/19 14:57	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/16/19 14:57	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/16/19 14:57	1
Ethylbenzene	0.33	U F1	1.0	0.33	ug/L			05/16/19 14:57	1
Hexachlorobutadiene	2.5	U F1	5.0	2.5	ug/L			05/16/19 14:57	1
2-Hexanone	2.0	U F2 F1	10	2.0	ug/L			05/16/19 14:57	1
Iodomethane	5.0	U F2	10	5.0	ug/L			05/16/19 14:57	1
Isopropylbenzene	0.35	U F1	1.0	0.35	ug/L			05/16/19 14:57	1
Methylene Chloride	2.5	U F1	5.0	2.5	ug/L			05/16/19 14:57	1
4-Methyl-2-pentanone	2.1	U F2 F1	10	2.1	ug/L			05/16/19 14:57	1
Methyl tert-butyl ether	0.30	U F2 F1	10	0.30	ug/L			05/16/19 14:57	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/16/19 14:57	1
Naphthalene	2.5	U F2 F1	5.0	2.5	ug/L			05/16/19 14:57	1
n-Butylbenzene	0.47	U F1	1.0	0.47	ug/L			05/16/19 14:57	1
N-Propylbenzene	0.38	U F1	1.0	0.38	ug/L			05/16/19 14:57	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/16/19 14:57	1
p-Isopropyltoluene	0.48	U F1	1.0	0.48	ug/L			05/16/19 14:57	1
sec-Butylbenzene	0.42	U F1	1.0	0.42	ug/L			05/16/19 14:57	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 1

Lab Sample ID: 680-168493-1

Date Collected: 05/02/19 10:20

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/16/19 14:57	1
tert-Butylbenzene	0.45	U F1	1.0	0.45	ug/L			05/16/19 14:57	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 14:57	1
1,1,2,2-Tetrachloroethane	0.62	U F2 F1	1.0	0.62	ug/L			05/16/19 14:57	1
Tetrachloroethylene	0.74	U F1	1.0	0.74	ug/L			05/16/19 14:57	1
Toluene	0.57	J	1.0	0.48	ug/L			05/16/19 14:57	1
trans-1,4-Dichloro-2-butene	0.51	U F2 F1	2.0	0.51	ug/L			05/16/19 14:57	1
trans-1,2-Dichloroethene	1.3	B	1.0	0.37	ug/L			05/16/19 14:57	1
trans-1,3-Dichloropropene	0.42	U F2 F1	1.0	0.42	ug/L			05/16/19 14:57	1
1,2,3-Trichlorobenzene	2.5	U F2 F1	5.0	2.5	ug/L			05/16/19 14:57	1
1,2,4-Trichlorobenzene	2.5	U F2 F1	5.0	2.5	ug/L			05/16/19 14:57	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 14:57	1
1,1,2-Trichloroethane	0.33	U F2 F1	1.0	0.33	ug/L			05/16/19 14:57	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/16/19 14:57	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/16/19 14:57	1
1,2,3-Trichloropropane	0.39	U F2 F1	1.0	0.39	ug/L			05/16/19 14:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/16/19 14:57	1
1,2,4-Trimethylbenzene	0.47	U F1	1.0	0.47	ug/L			05/16/19 14:57	1
1,3,5-Trimethylbenzene	0.31	U F1	1.0	0.31	ug/L			05/16/19 14:57	1
Vinyl acetate	0.81	U F2 F1	2.0	0.81	ug/L			05/16/19 14:57	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/16/19 14:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/16/19 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		05/16/19 14:57	1
Dibromofluoromethane (Surr)	100		80 - 122		05/16/19 14:57	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		05/16/19 14:57	1
Toluene-d8 (Surr)	98		80 - 120		05/16/19 14:57	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	19		1.1	0.55	ug/L			05/14/19 14:08	1
Ethylene	190		1.0	0.50	ug/L			05/14/19 14:08	1
Methane (TCD)	31000		390	39	ug/L			05/14/19 14:08	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U F1	1.0	0.40	mg/L			05/14/19 11:36	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	24000		1000	480	ug/L		05/13/19 14:05	05/14/19 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	79		1.0	0.50	mg/L			05/09/19 04:46	1
Total Organic Carbon - Quad	79		1.0	0.50	mg/L			05/09/19 04:46	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 2

Lab Sample ID: 680-168493-2

Date Collected: 05/02/19 10:45

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	12		10	7.0	ug/L			05/16/19 15:20	1
Acrylonitrile	10	U	20	10	ug/L			05/16/19 15:20	1
Benzene	1.7		1.0	0.43	ug/L			05/16/19 15:20	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/16/19 15:20	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/16/19 15:20	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/16/19 15:20	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/16/19 15:20	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/16/19 15:20	1
2-Butanone (MEK)	35		10	3.4	ug/L			05/16/19 15:20	1
Carbon disulfide	1.2	J B	2.0	1.0	ug/L			05/16/19 15:20	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/16/19 15:20	1
Chlorobenzene	36		1.0	0.26	ug/L			05/16/19 15:20	1
Chloroethane	7.2		5.0	2.5	ug/L			05/16/19 15:20	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/16/19 15:20	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/16/19 15:20	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/16/19 15:20	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/16/19 15:20	1
cis-1,2-Dichloroethene	26		1.0	0.41	ug/L			05/16/19 15:20	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/16/19 15:20	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/16/19 15:20	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/16/19 15:20	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/16/19 15:20	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/16/19 15:20	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/16/19 15:20	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/16/19 15:20	1
1,4-Dichlorobenzene	0.80	J B	1.0	0.46	ug/L			05/16/19 15:20	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/16/19 15:20	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/16/19 15:20	1
1,2-Dichloroethane	3.7		1.0	0.50	ug/L			05/16/19 15:20	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/16/19 15:20	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/16/19 15:20	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/16/19 15:20	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/16/19 15:20	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/16/19 15:20	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/16/19 15:20	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/16/19 15:20	1
2-Hexanone	2.4	J	10	2.0	ug/L			05/16/19 15:20	1
Iodomethane	5.0	U	10	5.0	ug/L			05/16/19 15:20	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/16/19 15:20	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/16/19 15:20	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/16/19 15:20	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/16/19 15:20	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/16/19 15:20	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/16/19 15:20	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 15:20	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/16/19 15:20	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/16/19 15:20	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/16/19 15:20	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/16/19 15:20	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 2

Lab Sample ID: 680-168493-2

Date Collected: 05/02/19 10:45

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/16/19 15:20	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/16/19 15:20	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 15:20	1
1,1,2,2-Tetrachloroethane	0.76	J	1.0	0.62	ug/L			05/16/19 15:20	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/16/19 15:20	1
Toluene	6.4		1.0	0.48	ug/L			05/16/19 15:20	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/16/19 15:20	1
trans-1,2-Dichloroethene	16	B	1.0	0.37	ug/L			05/16/19 15:20	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/16/19 15:20	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 15:20	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 15:20	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 15:20	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/16/19 15:20	1
Trichloroethene	1.7		1.0	0.48	ug/L			05/16/19 15:20	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/16/19 15:20	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/16/19 15:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/16/19 15:20	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 15:20	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/16/19 15:20	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/16/19 15:20	1
Vinyl chloride	4.4		1.0	0.50	ug/L			05/16/19 15:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/16/19 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		05/16/19 15:20	1
Dibromofluoromethane (Surr)	98		80 - 122		05/16/19 15:20	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		05/16/19 15:20	1
Toluene-d8 (Surr)	98		80 - 120		05/16/19 15:20	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	5.1		1.1	0.55	ug/L			05/14/19 14:47	1
Ethylene	50		1.0	0.50	ug/L			05/14/19 14:47	1
Methane (TCD)	21000		390	39	ug/L			05/14/19 14:47	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U F1	1.0	0.40	mg/L			05/14/19 16:23	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	42000		1000	480	ug/L		05/13/19 14:05	05/14/19 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	170		2.0	1.0	mg/L			05/09/19 05:45	2
Total Organic Carbon - Quad	170		2.0	1.0	mg/L			05/09/19 05:45	2

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 3

Lab Sample ID: 680-168493-3

Date Collected: 05/02/19 10:55

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/16/19 15:44	1
Acrylonitrile	10	U	20	10	ug/L			05/16/19 15:44	1
Benzene	0.77	J	1.0	0.43	ug/L			05/16/19 15:44	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/16/19 15:44	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/16/19 15:44	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/16/19 15:44	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/16/19 15:44	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/16/19 15:44	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/16/19 15:44	1
Carbon disulfide	1.1	J B	2.0	1.0	ug/L			05/16/19 15:44	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/16/19 15:44	1
Chlorobenzene	16		1.0	0.26	ug/L			05/16/19 15:44	1
Chloroethane	3.3	J	5.0	2.5	ug/L			05/16/19 15:44	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/16/19 15:44	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/16/19 15:44	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/16/19 15:44	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/16/19 15:44	1
cis-1,2-Dichloroethene	5.3		1.0	0.41	ug/L			05/16/19 15:44	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/16/19 15:44	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/16/19 15:44	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/16/19 15:44	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/16/19 15:44	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/16/19 15:44	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/16/19 15:44	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/16/19 15:44	1
1,4-Dichlorobenzene	0.67	J B	1.0	0.46	ug/L			05/16/19 15:44	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/16/19 15:44	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/16/19 15:44	1
1,2-Dichloroethane	1.5		1.0	0.50	ug/L			05/16/19 15:44	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/16/19 15:44	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/16/19 15:44	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/16/19 15:44	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/16/19 15:44	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/16/19 15:44	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/16/19 15:44	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/16/19 15:44	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/16/19 15:44	1
Iodomethane	5.0	U	10	5.0	ug/L			05/16/19 15:44	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/16/19 15:44	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/16/19 15:44	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/16/19 15:44	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/16/19 15:44	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/16/19 15:44	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/16/19 15:44	1
n-Butylbenzene	0.52	J B	1.0	0.47	ug/L			05/16/19 15:44	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/16/19 15:44	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/16/19 15:44	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/16/19 15:44	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/16/19 15:44	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 3

Lab Sample ID: 680-168493-3

Date Collected: 05/02/19 10:55

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/16/19 15:44	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/16/19 15:44	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 15:44	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/16/19 15:44	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/16/19 15:44	1
Toluene	1.4		1.0	0.48	ug/L			05/16/19 15:44	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/16/19 15:44	1
trans-1,2-Dichloroethene	11	B	1.0	0.37	ug/L			05/16/19 15:44	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/16/19 15:44	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 15:44	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 15:44	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 15:44	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/16/19 15:44	1
Trichloroethene	17		1.0	0.48	ug/L			05/16/19 15:44	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/16/19 15:44	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/16/19 15:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/16/19 15:44	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 15:44	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/16/19 15:44	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/16/19 15:44	1
Vinyl chloride	1.9		1.0	0.50	ug/L			05/16/19 15:44	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/16/19 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		05/16/19 15:44	1
Dibromofluoromethane (Surr)	97		80 - 122		05/16/19 15:44	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		05/16/19 15:44	1
Toluene-d8 (Surr)	100		80 - 120		05/16/19 15:44	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	26		1.1	0.55	ug/L			05/14/19 15:00	1
Ethylene	23		1.0	0.50	ug/L			05/14/19 15:00	1
Methane (TCD)	16000		390	39	ug/L			05/14/19 15:00	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2.6		1.0	0.40	mg/L			05/14/19 17:02	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	22000		1000	480	ug/L		05/08/19 14:24	05/09/19 22:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.8		1.0	0.50	mg/L			05/09/19 06:03	1
Total Organic Carbon - Quad	1.8		1.0	0.50	mg/L			05/09/19 06:03	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 4

Lab Sample ID: 680-168493-4

Date Collected: 05/02/19 11:05

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	29		10	7.0	ug/L			05/16/19 16:07	1
Acrylonitrile	10	U	20	10	ug/L			05/16/19 16:07	1
Benzene	0.45	J	1.0	0.43	ug/L			05/16/19 16:07	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/16/19 16:07	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/16/19 16:07	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/16/19 16:07	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/16/19 16:07	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/16/19 16:07	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/16/19 16:07	1
Carbon disulfide	1.2	J B	2.0	1.0	ug/L			05/16/19 16:07	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/16/19 16:07	1
Chlorobenzene	16		1.0	0.26	ug/L			05/16/19 16:07	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/16/19 16:07	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/16/19 16:07	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/16/19 16:07	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/16/19 16:07	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/16/19 16:07	1
cis-1,2-Dichloroethene	1.2		1.0	0.41	ug/L			05/16/19 16:07	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/16/19 16:07	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/16/19 16:07	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/16/19 16:07	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/16/19 16:07	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/16/19 16:07	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/16/19 16:07	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/16/19 16:07	1
1,4-Dichlorobenzene	0.56	J B	1.0	0.46	ug/L			05/16/19 16:07	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/16/19 16:07	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/16/19 16:07	1
1,2-Dichloroethane	0.69	J	1.0	0.50	ug/L			05/16/19 16:07	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/16/19 16:07	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/16/19 16:07	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/16/19 16:07	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/16/19 16:07	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/16/19 16:07	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/16/19 16:07	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/16/19 16:07	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/16/19 16:07	1
Iodomethane	5.0	U	10	5.0	ug/L			05/16/19 16:07	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/16/19 16:07	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/16/19 16:07	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/16/19 16:07	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/16/19 16:07	1
m-Xylene & p-Xylene	0.43	J	1.0	0.35	ug/L			05/16/19 16:07	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/16/19 16:07	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 16:07	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/16/19 16:07	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/16/19 16:07	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/16/19 16:07	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/16/19 16:07	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 4

Lab Sample ID: 680-168493-4

Date Collected: 05/02/19 11:05

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/16/19 16:07	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/16/19 16:07	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 16:07	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/16/19 16:07	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/16/19 16:07	1
Toluene	7.3		1.0	0.48	ug/L			05/16/19 16:07	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/16/19 16:07	1
trans-1,2-Dichloroethene	3.3	B	1.0	0.37	ug/L			05/16/19 16:07	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/16/19 16:07	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 16:07	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 16:07	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 16:07	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/16/19 16:07	1
Trichloroethene	1.5		1.0	0.48	ug/L			05/16/19 16:07	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/16/19 16:07	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/16/19 16:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/16/19 16:07	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 16:07	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/16/19 16:07	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/16/19 16:07	1
Vinyl chloride	0.58	J	1.0	0.50	ug/L			05/16/19 16:07	1
Xylenes, Total	0.43	J	1.0	0.23	ug/L			05/16/19 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		05/16/19 16:07	1
Dibromofluoromethane (Surr)	97		80 - 122		05/16/19 16:07	1
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		05/16/19 16:07	1
Toluene-d8 (Surr)	100		80 - 120		05/16/19 16:07	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	3.5		1.1	0.55	ug/L			05/14/19 15:13	1
Ethylene	7.5		1.0	0.50	ug/L			05/14/19 15:13	1
Methane (TCD)	20000		390	39	ug/L			05/14/19 15:13	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			05/14/19 17:27	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	36000		1000	480	ug/L		05/13/19 14:05	05/14/19 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	26		1.0	0.50	mg/L			05/09/19 06:19	1
Total Organic Carbon - Quad	26		1.0	0.50	mg/L			05/09/19 06:19	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 5

Lab Sample ID: 680-168493-5

Date Collected: 05/02/19 11:25

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/16/19 16:31	1
Acrylonitrile	10	U	20	10	ug/L			05/16/19 16:31	1
Benzene	0.43	U	1.0	0.43	ug/L			05/16/19 16:31	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/16/19 16:31	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/16/19 16:31	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/16/19 16:31	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/16/19 16:31	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/16/19 16:31	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/16/19 16:31	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/16/19 16:31	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/16/19 16:31	1
Chlorobenzene	1.5		1.0	0.26	ug/L			05/16/19 16:31	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/16/19 16:31	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/16/19 16:31	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/16/19 16:31	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/16/19 16:31	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/16/19 16:31	1
cis-1,2-Dichloroethene	6.7		1.0	0.41	ug/L			05/16/19 16:31	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/16/19 16:31	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/16/19 16:31	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/16/19 16:31	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/16/19 16:31	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/16/19 16:31	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/16/19 16:31	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/16/19 16:31	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/16/19 16:31	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/16/19 16:31	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/16/19 16:31	1
1,2-Dichloroethane	0.61	J	1.0	0.50	ug/L			05/16/19 16:31	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/16/19 16:31	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/16/19 16:31	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/16/19 16:31	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/16/19 16:31	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/16/19 16:31	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/16/19 16:31	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/16/19 16:31	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/16/19 16:31	1
Iodomethane	5.0	U	10	5.0	ug/L			05/16/19 16:31	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/16/19 16:31	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/16/19 16:31	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/16/19 16:31	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/16/19 16:31	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/16/19 16:31	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/16/19 16:31	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 16:31	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/16/19 16:31	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/16/19 16:31	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/16/19 16:31	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/16/19 16:31	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 5

Lab Sample ID: 680-168493-5

Date Collected: 05/02/19 11:25

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/16/19 16:31	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/16/19 16:31	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 16:31	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/16/19 16:31	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/16/19 16:31	1
Toluene	0.82	J	1.0	0.48	ug/L			05/16/19 16:31	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/16/19 16:31	1
trans-1,2-Dichloroethene	1.9	B	1.0	0.37	ug/L			05/16/19 16:31	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/16/19 16:31	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 16:31	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 16:31	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 16:31	1
1,1,2-Trichloroethane	0.48	J	1.0	0.33	ug/L			05/16/19 16:31	1
Trichloroethene	22		1.0	0.48	ug/L			05/16/19 16:31	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/16/19 16:31	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/16/19 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/16/19 16:31	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 16:31	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/16/19 16:31	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/16/19 16:31	1
Vinyl chloride	2.2		1.0	0.50	ug/L			05/16/19 16:31	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/16/19 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		05/16/19 16:31	1
Dibromofluoromethane (Surr)	95		80 - 122		05/16/19 16:31	1
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		05/16/19 16:31	1
Toluene-d8 (Surr)	97		80 - 120		05/16/19 16:31	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.72	J	1.1	0.55	ug/L			05/14/19 15:26	1
Ethylene	5.4		1.0	0.50	ug/L			05/14/19 15:26	1
Methane (TCD)	9200		390	39	ug/L			05/14/19 15:26	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	11		1.0	0.40	mg/L			05/14/19 17:40	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	17000		1000	480	ug/L		05/08/19 14:24	05/09/19 22:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.79	J	1.0	0.50	mg/L			05/09/19 06:37	1
Total Organic Carbon - Quad	0.79	J	1.0	0.50	mg/L			05/09/19 06:37	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 6

Lab Sample ID: 680-168493-6

Date Collected: 05/02/19 12:00

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/16/19 16:54	1
Acrylonitrile	10	U	20	10	ug/L			05/16/19 16:54	1
Benzene	0.43	U	1.0	0.43	ug/L			05/16/19 16:54	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/16/19 16:54	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/16/19 16:54	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/16/19 16:54	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/16/19 16:54	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/16/19 16:54	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/16/19 16:54	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/16/19 16:54	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/16/19 16:54	1
Chlorobenzene	0.71	J	1.0	0.26	ug/L			05/16/19 16:54	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/16/19 16:54	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/16/19 16:54	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/16/19 16:54	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/16/19 16:54	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/16/19 16:54	1
cis-1,2-Dichloroethene	5.8		1.0	0.41	ug/L			05/16/19 16:54	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/16/19 16:54	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/16/19 16:54	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/16/19 16:54	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/16/19 16:54	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/16/19 16:54	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/16/19 16:54	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/16/19 16:54	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/16/19 16:54	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/16/19 16:54	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/16/19 16:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/16/19 16:54	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/16/19 16:54	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/16/19 16:54	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/16/19 16:54	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/16/19 16:54	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/16/19 16:54	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/16/19 16:54	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/16/19 16:54	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/16/19 16:54	1
Iodomethane	5.0	U	10	5.0	ug/L			05/16/19 16:54	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/16/19 16:54	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/16/19 16:54	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/16/19 16:54	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/16/19 16:54	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/16/19 16:54	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/16/19 16:54	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 16:54	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/16/19 16:54	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/16/19 16:54	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/16/19 16:54	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/16/19 16:54	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 6

Lab Sample ID: 680-168493-6

Date Collected: 05/02/19 12:00

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/16/19 16:54	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/16/19 16:54	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 16:54	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/16/19 16:54	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/16/19 16:54	1
Toluene	0.48	U	1.0	0.48	ug/L			05/16/19 16:54	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/16/19 16:54	1
trans-1,2-Dichloroethene	1.3	B	1.0	0.37	ug/L			05/16/19 16:54	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/16/19 16:54	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 16:54	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 16:54	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 16:54	1
1,1,2-Trichloroethane	0.47	J	1.0	0.33	ug/L			05/16/19 16:54	1
Trichloroethene	29		1.0	0.48	ug/L			05/16/19 16:54	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/16/19 16:54	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/16/19 16:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/16/19 16:54	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 16:54	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/16/19 16:54	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/16/19 16:54	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/16/19 16:54	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/16/19 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/16/19 16:54	1
Dibromofluoromethane (Surr)	96		80 - 122		05/16/19 16:54	1
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		05/16/19 16:54	1
Toluene-d8 (Surr)	97		80 - 120		05/16/19 16:54	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			05/14/19 15:39	1
Ethylene	0.73	J	1.0	0.50	ug/L			05/14/19 15:39	1
Methane (TCD)	1100		390	39	ug/L			05/14/19 15:39	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	14		1.0	0.40	mg/L			05/14/19 17:53	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	4000		1000	480	ug/L		05/08/19 14:24	05/09/19 22:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/09/19 06:55	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/09/19 06:55	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: TB 527

Lab Sample ID: 680-168493-7

Date Collected: 05/02/19 13:45

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/16/19 14:33	1
Acrylonitrile	10	U	20	10	ug/L			05/16/19 14:33	1
Benzene	0.43	U	1.0	0.43	ug/L			05/16/19 14:33	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/16/19 14:33	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/16/19 14:33	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/16/19 14:33	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/16/19 14:33	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/16/19 14:33	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/16/19 14:33	1
Carbon disulfide	1.2	J B	2.0	1.0	ug/L			05/16/19 14:33	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/16/19 14:33	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/16/19 14:33	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/16/19 14:33	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/16/19 14:33	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/16/19 14:33	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/16/19 14:33	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/16/19 14:33	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/16/19 14:33	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/16/19 14:33	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/16/19 14:33	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/16/19 14:33	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/16/19 14:33	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/16/19 14:33	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/16/19 14:33	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/16/19 14:33	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/16/19 14:33	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/16/19 14:33	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/16/19 14:33	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/16/19 14:33	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/16/19 14:33	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/16/19 14:33	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/16/19 14:33	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/16/19 14:33	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/16/19 14:33	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/16/19 14:33	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/16/19 14:33	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/16/19 14:33	1
Iodomethane	5.0	U	10	5.0	ug/L			05/16/19 14:33	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/16/19 14:33	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/16/19 14:33	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/16/19 14:33	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/16/19 14:33	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/16/19 14:33	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/16/19 14:33	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 14:33	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/16/19 14:33	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/16/19 14:33	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/16/19 14:33	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/16/19 14:33	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: TB 527

Lab Sample ID: 680-168493-7

Date Collected: 05/02/19 13:45

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/16/19 14:33	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/16/19 14:33	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 14:33	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/16/19 14:33	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/16/19 14:33	1
Toluene	0.48	U	1.0	0.48	ug/L			05/16/19 14:33	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/16/19 14:33	1
trans-1,2-Dichloroethene	0.45	J B	1.0	0.37	ug/L			05/16/19 14:33	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/16/19 14:33	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 14:33	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 14:33	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 14:33	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/16/19 14:33	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/16/19 14:33	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/16/19 14:33	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/16/19 14:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/16/19 14:33	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 14:33	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/16/19 14:33	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/16/19 14:33	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/16/19 14:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/16/19 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		05/16/19 14:33	1
Dibromofluoromethane (Surr)	96		80 - 122		05/16/19 14:33	1
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		05/16/19 14:33	1
Toluene-d8 (Surr)	97		80 - 120		05/16/19 14:33	1

Client Sample ID: DUP 322

Lab Sample ID: 680-168493-8

Date Collected: 05/01/19 00:00

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/15/19 20:04	1
Acrylonitrile	10	U	20	10	ug/L			05/15/19 20:04	1
Benzene	0.43	U	1.0	0.43	ug/L			05/15/19 20:04	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/15/19 20:04	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/15/19 20:04	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/15/19 20:04	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/15/19 20:04	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/15/19 20:04	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/15/19 20:04	1
Carbon disulfide	2.5	B	2.0	1.0	ug/L			05/15/19 20:04	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/15/19 20:04	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/15/19 20:04	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/15/19 20:04	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/15/19 20:04	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/15/19 20:04	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: DUP 322

Lab Sample ID: 680-168493-8

Date Collected: 05/01/19 00:00

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/15/19 20:04	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/15/19 20:04	1
cis-1,2-Dichloroethene	4.0	B	1.0	0.41	ug/L			05/15/19 20:04	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/15/19 20:04	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/15/19 20:04	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/15/19 20:04	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/15/19 20:04	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/15/19 20:04	1
1,2-Dichlorobenzene	0.38	J B	1.0	0.37	ug/L			05/15/19 20:04	1
1,3-Dichlorobenzene	0.50	J B	1.0	0.43	ug/L			05/15/19 20:04	1
1,4-Dichlorobenzene	0.59	J B	1.0	0.46	ug/L			05/15/19 20:04	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/15/19 20:04	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/15/19 20:04	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/15/19 20:04	1
1,1-Dichloroethene	0.53	J B	1.0	0.36	ug/L			05/15/19 20:04	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/15/19 20:04	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/15/19 20:04	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/15/19 20:04	1
1,1-Dichloropropene	0.42	J B	1.0	0.34	ug/L			05/15/19 20:04	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/15/19 20:04	1
Hexachlorobutadiene	3.0	J B	5.0	2.5	ug/L			05/15/19 20:04	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/15/19 20:04	1
Iodomethane	5.0	U	10	5.0	ug/L			05/15/19 20:04	1
Isopropylbenzene	0.41	J B	1.0	0.35	ug/L			05/15/19 20:04	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/15/19 20:04	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/15/19 20:04	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/15/19 20:04	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/15/19 20:04	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/15/19 20:04	1
n-Butylbenzene	1.1	B	1.0	0.47	ug/L			05/15/19 20:04	1
N-Propylbenzene	0.61	J B	1.0	0.38	ug/L			05/15/19 20:04	1
o-Xylene	0.25	J B	1.0	0.23	ug/L			05/15/19 20:04	1
p-Isopropyltoluene	0.63	J B	1.0	0.48	ug/L			05/15/19 20:04	1
sec-Butylbenzene	0.64	J B	1.0	0.42	ug/L			05/15/19 20:04	1
Styrene	0.27	U	1.0	0.27	ug/L			05/15/19 20:04	1
tert-Butylbenzene	0.62	J B	1.0	0.45	ug/L			05/15/19 20:04	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 20:04	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/15/19 20:04	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/15/19 20:04	1
Toluene	0.48	U	1.0	0.48	ug/L			05/15/19 20:04	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/15/19 20:04	1
trans-1,2-Dichloroethene	1.6	B	1.0	0.37	ug/L			05/15/19 20:04	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/15/19 20:04	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/15/19 20:04	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/15/19 20:04	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 20:04	1
1,1,2-Trichloroethane	0.48	J	1.0	0.33	ug/L			05/15/19 20:04	1
Trichloroethene	32	B	1.0	0.48	ug/L			05/15/19 20:04	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/15/19 20:04	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: DUP 322

Lab Sample ID: 680-168493-8

Date Collected: 05/01/19 00:00

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L	-		05/15/19 20:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U *	1.0	0.36	ug/L	-		05/15/19 20:04	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L	-		05/15/19 20:04	1
1,3,5-Trimethylbenzene	0.53	J B	1.0	0.31	ug/L	-		05/15/19 20:04	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L	-		05/15/19 20:04	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L	-		05/15/19 20:04	1
Xylenes, Total	0.25	J B	1.0	0.23	ug/L	-		05/15/19 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/15/19 20:04	1
Dibromofluoromethane (Surr)	96		80 - 122		05/15/19 20:04	1
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		05/15/19 20:04	1
Toluene-d8 (Surr)	97		80 - 120		05/15/19 20:04	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	15		1.0	0.40	mg/L	-		05/14/19 18:19	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3400		1000	480	ug/L	-	05/08/19 14:24	05/09/19 22:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L	-		05/09/19 07:44	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L	-		05/09/19 07:44	1

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-570450/20

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/15/19 19:41	1
Acrylonitrile	10	U	20	10	ug/L			05/15/19 19:41	1
Benzene	0.43	U	1.0	0.43	ug/L			05/15/19 19:41	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/15/19 19:41	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/15/19 19:41	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/15/19 19:41	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/15/19 19:41	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/15/19 19:41	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/15/19 19:41	1
Carbon disulfide	3.13		2.0	1.0	ug/L			05/15/19 19:41	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/15/19 19:41	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/15/19 19:41	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/15/19 19:41	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/15/19 19:41	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/15/19 19:41	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/15/19 19:41	1
4-Chlorotoluene	0.683	J	1.0	0.45	ug/L			05/15/19 19:41	1
cis-1,2-Dichloroethene	0.439	J	1.0	0.41	ug/L			05/15/19 19:41	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/15/19 19:41	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/15/19 19:41	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/15/19 19:41	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/15/19 19:41	1
Dibromomethane	0.366	J	1.0	0.35	ug/L			05/15/19 19:41	1
1,2-Dichlorobenzene	0.699	J	1.0	0.37	ug/L			05/15/19 19:41	1
1,3-Dichlorobenzene	0.886	J	1.0	0.43	ug/L			05/15/19 19:41	1
1,4-Dichlorobenzene	1.01		1.0	0.46	ug/L			05/15/19 19:41	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/15/19 19:41	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/15/19 19:41	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/15/19 19:41	1
1,1-Dichloroethene	0.631	J	1.0	0.36	ug/L			05/15/19 19:41	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/15/19 19:41	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/15/19 19:41	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/15/19 19:41	1
1,1-Dichloropropene	0.577	J	1.0	0.34	ug/L			05/15/19 19:41	1
Ethylbenzene	0.366	J	1.0	0.33	ug/L			05/15/19 19:41	1
Hexachlorobutadiene	4.12	J	5.0	2.5	ug/L			05/15/19 19:41	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/15/19 19:41	1
Iodomethane	5.0	U	10	5.0	ug/L			05/15/19 19:41	1
Isopropylbenzene	0.702	J	1.0	0.35	ug/L			05/15/19 19:41	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/15/19 19:41	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/15/19 19:41	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/15/19 19:41	1
m-Xylene & p-Xylene	0.389	J	1.0	0.35	ug/L			05/15/19 19:41	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/15/19 19:41	1
n-Butylbenzene	1.94		1.0	0.47	ug/L			05/15/19 19:41	1
N-Propylbenzene	0.963	J	1.0	0.38	ug/L			05/15/19 19:41	1
o-Xylene	0.309	J	1.0	0.23	ug/L			05/15/19 19:41	1
p-Isopropyltoluene	1.20		1.0	0.48	ug/L			05/15/19 19:41	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: MB 680-570450/20

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.12		1.0	0.42	ug/L			05/15/19 19:41	1
Styrene	0.348	J	1.0	0.27	ug/L			05/15/19 19:41	1
tert-Butylbenzene	0.946	J	1.0	0.45	ug/L			05/15/19 19:41	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 19:41	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/15/19 19:41	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/15/19 19:41	1
Toluene	0.48	U	1.0	0.48	ug/L			05/15/19 19:41	1
trans-1,4-Dichloro-2-butene	0.639	J	2.0	0.51	ug/L			05/15/19 19:41	1
trans-1,2-Dichloroethene	1.32		1.0	0.37	ug/L			05/15/19 19:41	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/15/19 19:41	1
1,2,3-Trichlorobenzene	2.88	J	5.0	2.5	ug/L			05/15/19 19:41	1
1,2,4-Trichlorobenzene	2.65	J	5.0	2.5	ug/L			05/15/19 19:41	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 19:41	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/15/19 19:41	1
Trichloroethene	0.652	J	1.0	0.48	ug/L			05/15/19 19:41	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/15/19 19:41	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/15/19 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/15/19 19:41	1
1,2,4-Trimethylbenzene	0.683	J	1.0	0.47	ug/L			05/15/19 19:41	1
1,3,5-Trimethylbenzene	0.787	J	1.0	0.31	ug/L			05/15/19 19:41	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/15/19 19:41	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/15/19 19:41	1
Xylenes, Total	0.698	J	1.0	0.23	ug/L			05/15/19 19:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		05/15/19 19:41	1
Dibromofluoromethane (Surr)	98		80 - 122		05/15/19 19:41	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		05/15/19 19:41	1
Toluene-d8 (Surr)	98		80 - 120		05/15/19 19:41	1

Lab Sample ID: LCS 680-570450/1016

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	224		ug/L		90	70 - 135
Acrylonitrile	500	519		ug/L		104	80 - 123
Benzene	50.0	52.0		ug/L		104	80 - 120
Bromobenzene	50.0	50.8		ug/L		102	80 - 121
Bromochloromethane	50.0	52.3		ug/L		105	80 - 120
Bromodichloromethane	50.0	50.3		ug/L		101	80 - 120
Bromoform	50.0	53.0		ug/L		106	74 - 126
Bromomethane	50.0	61.3		ug/L		123	62 - 130
2-Butanone (MEK)	250	266		ug/L		107	80 - 131
Carbon disulfide	50.0	48.6		ug/L		97	80 - 120
Carbon tetrachloride	50.0	52.2		ug/L		104	76 - 123
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120
Chloroethane	50.0	56.9		ug/L		114	66 - 135

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: LCS 680-570450/1016

Matrix: Water

Analysis Batch: 570450

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	49.6		ug/L		99	80 - 120
Chloromethane	50.0	54.4		ug/L		109	69 - 131
2-Chlorotoluene	50.0	48.6		ug/L		97	80 - 120
4-Chlorotoluene	50.0	48.5		ug/L		97	80 - 120
cis-1,2-Dichloroethene	50.0	52.9		ug/L		106	80 - 120
cis-1,3-Dichloropropene	50.0	52.1		ug/L		104	80 - 120
Dibromochloromethane	50.0	53.4		ug/L		107	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/L		98	71 - 134
1,2-Dibromoethane	50.0	52.7		ug/L		105	80 - 120
Dibromomethane	50.0	50.3		ug/L		101	80 - 120
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	80 - 120
1,3-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120
Dichlorodifluoromethane	50.0	45.2		ug/L		90	47 - 155
1,1-Dichloroethane	50.0	53.1		ug/L		106	80 - 120
1,2-Dichloroethane	50.0	53.4		ug/L		107	80 - 120
1,1-Dichloroethene	50.0	49.2		ug/L		98	76 - 120
1,2-Dichloropropane	50.0	53.9		ug/L		108	80 - 120
1,3-Dichloropropane	50.0	52.8		ug/L		106	80 - 120
2,2-Dichloropropane	50.0	49.0		ug/L		98	76 - 126
1,1-Dichloropropene	50.0	50.1		ug/L		100	80 - 120
Ethylbenzene	50.0	49.1		ug/L		98	80 - 120
Hexachlorobutadiene	50.0	52.5		ug/L		105	60 - 140
2-Hexanone	250	264		ug/L		106	74 - 127
Iodomethane	50.0	49.3		ug/L		99	52 - 142
Isopropylbenzene	50.0	49.4		ug/L		99	80 - 120
Methylene Chloride	50.0	48.8		ug/L		98	80 - 120
4-Methyl-2-pentanone	250	268		ug/L		107	76 - 124
Methyl tert-butyl ether	50.0	53.3		ug/L		107	80 - 120
m-Xylene & p-Xylene	50.0	49.5		ug/L		99	80 - 120
Naphthalene	50.0	49.0		ug/L		98	59 - 140
n-Butylbenzene	50.0	51.6		ug/L		103	80 - 120
N-Propylbenzene	50.0	47.2		ug/L		94	80 - 120
o-Xylene	50.0	49.7		ug/L		99	80 - 120
p-Isopropyltoluene	50.0	50.9		ug/L		102	80 - 120
sec-Butylbenzene	50.0	51.2		ug/L		102	80 - 120
Styrene	50.0	51.1		ug/L		102	80 - 120
tert-Butylbenzene	50.0	48.7		ug/L		97	80 - 121
1,1,1,2-Tetrachloroethane	50.0	51.0		ug/L		102	80 - 121
1,1,1,2,2-Tetrachloroethane	50.0	48.5		ug/L		97	80 - 120
Tetrachloroethylene	50.0	52.3		ug/L		105	80 - 121
Toluene	50.0	52.2		ug/L		104	80 - 113
trans-1,4-Dichloro-2-butene	50.0	48.9		ug/L		98	68 - 125
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	80 - 120
trans-1,3-Dichloropropene	50.0	48.6		ug/L		97	80 - 120
1,2,3-Trichlorobenzene	50.0	50.8		ug/L		102	61 - 141
1,2,4-Trichlorobenzene	50.0	49.6		ug/L		99	68 - 128
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: LCS 680-570450/1016

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	52.2		ug/L		104	80 - 120
Trichlorofluoromethane	50.0	52.2		ug/L		104	60 - 141
1,2,3-Trichloropropane	50.0	51.1		ug/L		102	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/L		100	79 - 124
1,2,4-Trimethylbenzene	50.0	48.7		ug/L		97	80 - 120
1,3,5-Trimethylbenzene	50.0	48.2		ug/L		96	80 - 120
Vinyl acetate	100	125		ug/L		125	67 - 135
Vinyl chloride	50.0	52.6		ug/L		105	71 - 128
Xylenes, Total	100	99.2		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	102		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 680-570450/17

Matrix: Water

Analysis Batch: 570450

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	268		ug/L		107	70 - 135	18	30
Acrylonitrile	500	572		ug/L		114	80 - 123	10	20
Benzene	50.0	53.2		ug/L		106	80 - 120	2	20
Bromobenzene	50.0	50.4		ug/L		101	80 - 121	1	20
Bromochloromethane	50.0	52.7		ug/L		105	80 - 120	1	20
Bromodichloromethane	50.0	49.5		ug/L		99	80 - 120	2	20
Bromoform	50.0	53.0		ug/L		106	74 - 126	0	20
Bromomethane	50.0	52.9		ug/L		106	62 - 130	15	20
2-Butanone (MEK)	250	297		ug/L		119	80 - 131	11	20
Carbon disulfide	50.0	53.4		ug/L		107	80 - 120	9	20
Carbon tetrachloride	50.0	55.2		ug/L		110	76 - 123	6	20
Chlorobenzene	50.0	51.8		ug/L		104	80 - 120	3	20
Chloroethane	50.0	56.7		ug/L		113	66 - 135	0	20
Chloroform	50.0	50.3		ug/L		101	80 - 120	1	20
Chloromethane	50.0	58.4		ug/L		117	69 - 131	7	30
2-Chlorotoluene	50.0	49.3		ug/L		99	80 - 120	2	20
4-Chlorotoluene	50.0	48.2		ug/L		96	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	54.5		ug/L		109	80 - 120	3	20
cis-1,3-Dichloropropene	50.0	52.4		ug/L		105	80 - 120	1	20
Dibromochloromethane	50.0	52.5		ug/L		105	80 - 121	2	20
1,2-Dibromo-3-Chloropropane	50.0	59.2		ug/L		118	71 - 134	19	20
1,2-Dibromoethane	50.0	51.8		ug/L		104	80 - 120	2	20
Dibromomethane	50.0	50.9		ug/L		102	80 - 120	1	20
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120	6	20
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	6	20
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	80 - 120	5	20
Dichlorodifluoromethane	50.0	55.0		ug/L		110	47 - 155	20	40

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: LCSD 680-570450/17

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	54.6		ug/L		109	80 - 120	3	20
1,2-Dichloroethane	50.0	53.6		ug/L		107	80 - 120	0	50
1,1-Dichloroethene	50.0	51.7		ug/L		103	76 - 120	5	20
1,2-Dichloropropane	50.0	54.1		ug/L		108	80 - 120	0	20
1,3-Dichloropropane	50.0	52.5		ug/L		105	80 - 120	1	20
2,2-Dichloropropane	50.0	50.3		ug/L		101	76 - 126	3	20
1,1-Dichloropropene	50.0	53.1		ug/L		106	80 - 120	6	20
Ethylbenzene	50.0	50.3		ug/L		101	80 - 120	2	20
Hexachlorobutadiene	50.0	50.3		ug/L		101	60 - 140	4	20
2-Hexanone	250	285		ug/L		114	74 - 127	8	20
Iodomethane	50.0	53.3		ug/L		107	52 - 142	8	30
Isopropylbenzene	50.0	51.1		ug/L		102	80 - 120	3	20
Methylene Chloride	50.0	50.0		ug/L		100	80 - 120	2	20
4-Methyl-2-pentanone	250	281		ug/L		112	76 - 124	5	20
Methyl tert-butyl ether	50.0	52.7		ug/L		105	80 - 120	1	20
m-Xylene & p-Xylene	50.0	50.6		ug/L		101	80 - 120	2	20
Naphthalene	50.0	55.2		ug/L		110	59 - 140	12	20
n-Butylbenzene	50.0	53.7		ug/L		107	80 - 120	4	20
N-Propylbenzene	50.0	48.2		ug/L		96	80 - 120	2	20
o-Xylene	50.0	50.5		ug/L		101	80 - 120	2	30
p-Isopropyltoluene	50.0	54.7		ug/L		109	80 - 120	7	20
sec-Butylbenzene	50.0	51.6		ug/L		103	80 - 120	1	20
Styrene	50.0	51.9		ug/L		104	80 - 120	1	20
tert-Butylbenzene	50.0	49.1		ug/L		98	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	51.9		ug/L		104	80 - 121	2	20
1,1,2,2-Tetrachloroethane	50.0	54.3		ug/L		109	80 - 120	11	20
Tetrachloroethylene	50.0	55.0		ug/L		110	80 - 121	5	20
Toluene	50.0	52.8		ug/L		106	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	51.9		ug/L		104	68 - 125	6	30
trans-1,2-Dichloroethene	50.0	53.4		ug/L		107	80 - 120	9	20
trans-1,3-Dichloropropene	50.0	48.9		ug/L		98	80 - 120	1	30
1,2,3-Trichlorobenzene	50.0	53.2		ug/L		106	61 - 141	5	20
1,2,4-Trichlorobenzene	50.0	50.3		ug/L		101	68 - 128	1	20
1,1,1-Trichloroethane	50.0	53.7		ug/L		107	80 - 120	5	20
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	80 - 120	0	20
Trichloroethene	50.0	54.3		ug/L		109	80 - 120	4	20
Trichlorofluoromethane	50.0	60.7		ug/L		121	60 - 141	15	20
1,2,3-Trichloropropane	50.0	53.9		ug/L		108	80 - 123	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	64.6 *		ug/L		129	79 - 124	26	20
1,2,4-Trimethylbenzene	50.0	49.1		ug/L		98	80 - 120	1	20
1,3,5-Trimethylbenzene	50.0	48.7		ug/L		97	80 - 120	1	20
Vinyl acetate	100	125		ug/L		125	67 - 135	0	20
Vinyl chloride	50.0	58.6		ug/L		117	71 - 128	11	20
Xylenes, Total	100	101		ug/L		101	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: LCSD 680-570450/17

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	102		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 680-570605/10

Matrix: Water

Analysis Batch: 570605

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/16/19 13:47	1
Acrylonitrile	10	U	20	10	ug/L			05/16/19 13:47	1
Benzene	0.43	U	1.0	0.43	ug/L			05/16/19 13:47	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/16/19 13:47	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/16/19 13:47	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/16/19 13:47	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/16/19 13:47	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/16/19 13:47	1
Carbon disulfide	1.92	J	2.0	1.0	ug/L			05/16/19 13:47	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/16/19 13:47	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/16/19 13:47	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/16/19 13:47	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/16/19 13:47	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/16/19 13:47	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/16/19 13:47	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/16/19 13:47	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/16/19 13:47	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/16/19 13:47	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/16/19 13:47	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/16/19 13:47	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/16/19 13:47	1
1,2-Dichlorobenzene	0.381	J	1.0	0.37	ug/L			05/16/19 13:47	1
1,3-Dichlorobenzene	0.469	J	1.0	0.43	ug/L			05/16/19 13:47	1
1,4-Dichlorobenzene	0.466	J	1.0	0.46	ug/L			05/16/19 13:47	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/16/19 13:47	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/16/19 13:47	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/16/19 13:47	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/16/19 13:47	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/16/19 13:47	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/16/19 13:47	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/16/19 13:47	1
1,1-Dichloropropene	0.368	J	1.0	0.34	ug/L			05/16/19 13:47	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/16/19 13:47	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/16/19 13:47	1
Iodomethane	5.0	U	10	5.0	ug/L			05/16/19 13:47	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/16/19 13:47	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: MB 680-570605/10

Matrix: Water

Analysis Batch: 570605

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/16/19 13:47	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/16/19 13:47	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/16/19 13:47	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
n-Butylbenzene	0.644	J	1.0	0.47	ug/L			05/16/19 13:47	1
N-Propylbenzene	0.502	J	1.0	0.38	ug/L			05/16/19 13:47	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/16/19 13:47	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/16/19 13:47	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/16/19 13:47	1
Styrene	0.27	U	1.0	0.27	ug/L			05/16/19 13:47	1
tert-Butylbenzene	0.457	J	1.0	0.45	ug/L			05/16/19 13:47	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 13:47	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/16/19 13:47	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/16/19 13:47	1
Toluene	0.48	U	1.0	0.48	ug/L			05/16/19 13:47	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/16/19 13:47	1
trans-1,2-Dichloroethene	0.745	J	1.0	0.37	ug/L			05/16/19 13:47	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/16/19 13:47	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 13:47	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/16/19 13:47	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/16/19 13:47	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/16/19 13:47	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/16/19 13:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/16/19 13:47	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 13:47	1
1,3,5-Trimethylbenzene	0.435	J	1.0	0.31	ug/L			05/16/19 13:47	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/16/19 13:47	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/16/19 13:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/16/19 13:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/16/19 13:47	1
Dibromofluoromethane (Surr)	96		80 - 122		05/16/19 13:47	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		05/16/19 13:47	1
Toluene-d8 (Surr)	98		80 - 120		05/16/19 13:47	1

Lab Sample ID: LCS 680-570605/5

Matrix: Water

Analysis Batch: 570605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	234		ug/L		94	70 - 135
Acrylonitrile	500	459		ug/L		92	80 - 123
Benzene	50.0	49.6		ug/L		99	80 - 120
Bromobenzene	50.0	50.5		ug/L		101	80 - 121

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: LCS 680-570605/5

Matrix: Water

Analysis Batch: 570605

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	48.9		ug/L		98	80 - 120
Bromodichloromethane	50.0	45.1		ug/L		90	80 - 120
Bromoform	50.0	49.4		ug/L		99	74 - 126
Bromomethane	50.0	44.6		ug/L		89	62 - 130
2-Butanone (MEK)	250	240		ug/L		96	80 - 131
Carbon disulfide	50.0	49.8		ug/L		100	80 - 120
Carbon tetrachloride	50.0	51.6		ug/L		103	76 - 123
Chlorobenzene	50.0	50.6		ug/L		101	80 - 120
Chloroethane	50.0	51.0		ug/L		102	66 - 135
Chloroform	50.0	46.2		ug/L		92	80 - 120
Chloromethane	50.0	44.7		ug/L		89	69 - 131
2-Chlorotoluene	50.0	49.9		ug/L		100	80 - 120
4-Chlorotoluene	50.0	49.6		ug/L		99	80 - 120
cis-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	80 - 120
Dibromochloromethane	50.0	48.4		ug/L		97	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	45.0		ug/L		90	71 - 134
1,2-Dibromoethane	50.0	47.8		ug/L		96	80 - 120
Dibromomethane	50.0	45.7		ug/L		91	80 - 120
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120
1,3-Dichlorobenzene	50.0	48.8		ug/L		98	80 - 120
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120
Dichlorodifluoromethane	50.0	47.0		ug/L		94	47 - 155
1,1-Dichloroethane	50.0	50.1		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	48.8		ug/L		98	80 - 120
1,1-Dichloroethene	50.0	47.5		ug/L		95	76 - 120
1,2-Dichloropropane	50.0	48.7		ug/L		97	80 - 120
1,3-Dichloropropane	50.0	49.2		ug/L		98	80 - 120
2,2-Dichloropropane	50.0	50.3		ug/L		101	76 - 126
1,1-Dichloropropene	50.0	51.0		ug/L		102	80 - 120
Ethylbenzene	50.0	50.2		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	56.7		ug/L		113	60 - 140
2-Hexanone	250	232		ug/L		93	74 - 127
Iodomethane	50.0	50.5		ug/L		101	52 - 142
Isopropylbenzene	50.0	51.6		ug/L		103	80 - 120
Methylene Chloride	50.0	45.4		ug/L		91	80 - 120
4-Methyl-2-pentanone	250	236		ug/L		94	76 - 124
Methyl tert-butyl ether	50.0	47.0		ug/L		94	80 - 120
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	80 - 120
Naphthalene	50.0	47.5		ug/L		95	59 - 140
n-Butylbenzene	50.0	54.7		ug/L		109	80 - 120
N-Propylbenzene	50.0	50.1		ug/L		100	80 - 120
o-Xylene	50.0	49.9		ug/L		100	80 - 120
p-Isopropyltoluene	50.0	53.6		ug/L		107	80 - 120
sec-Butylbenzene	50.0	55.0		ug/L		110	80 - 120
Styrene	50.0	50.9		ug/L		102	80 - 120
tert-Butylbenzene	50.0	51.3		ug/L		103	80 - 121
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/L		100	80 - 121
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/L		91	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: LCS 680-570605/5

Matrix: Water

Analysis Batch: 570605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethylene	50.0	54.4		ug/L		109	80 - 121
Toluene	50.0	50.4		ug/L		101	80 - 113
trans-1,4-Dichloro-2-butene	50.0	47.2		ug/L		94	68 - 125
trans-1,2-Dichloroethene	50.0	47.6		ug/L		95	80 - 120
trans-1,3-Dichloropropene	50.0	48.4		ug/L		97	80 - 120
1,2,3-Trichlorobenzene	50.0	50.8		ug/L		102	61 - 141
1,2,4-Trichlorobenzene	50.0	48.5		ug/L		97	68 - 128
1,1,1-Trichloroethane	50.0	48.7		ug/L		97	80 - 120
1,1,2-Trichloroethane	50.0	45.7		ug/L		91	80 - 120
Trichloroethene	50.0	51.3		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	51.2		ug/L		102	60 - 141
1,2,3-Trichloropropane	50.0	47.8		ug/L		96	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.7		ug/L		109	79 - 124
1,2,4-Trimethylbenzene	50.0	49.8		ug/L		100	80 - 120
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	80 - 120
Vinyl acetate	100	104		ug/L		104	67 - 135
Vinyl chloride	50.0	50.7		ug/L		101	71 - 128
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	96		80 - 122
1,2-Dichloroethane-d4 (Surr)	90		73 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: LCSD 680-570605/6

Matrix: Water

Analysis Batch: 570605

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	251		ug/L		101	70 - 135	7	30
Acrylonitrile	500	488		ug/L		98	80 - 123	6	20
Benzene	50.0	49.3		ug/L		99	80 - 120	1	20
Bromobenzene	50.0	50.4		ug/L		101	80 - 121	0	20
Bromochloromethane	50.0	50.0		ug/L		100	80 - 120	2	20
Bromodichloromethane	50.0	45.4		ug/L		91	80 - 120	1	20
Bromoform	50.0	49.7		ug/L		99	74 - 126	1	20
Bromomethane	50.0	43.2		ug/L		86	62 - 130	3	20
2-Butanone (MEK)	250	261		ug/L		104	80 - 131	8	20
Carbon disulfide	50.0	51.5		ug/L		103	80 - 120	3	20
Carbon tetrachloride	50.0	51.5		ug/L		103	76 - 123	0	20
Chlorobenzene	50.0	50.0		ug/L		100	80 - 120	1	20
Chloroethane	50.0	52.2		ug/L		104	66 - 135	2	20
Chloroform	50.0	45.6		ug/L		91	80 - 120	1	20
Chloromethane	50.0	44.2		ug/L		88	69 - 131	1	30
2-Chlorotoluene	50.0	49.7		ug/L		99	80 - 120	1	20
4-Chlorotoluene	50.0	49.5		ug/L		99	80 - 120	0	20
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 120	0	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: LCSD 680-570605/6

Matrix: Water

Analysis Batch: 570605

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
cis-1,3-Dichloropropene	50.0	49.5		ug/L		99	80 - 120	0	20
Dibromochloromethane	50.0	49.1		ug/L		98	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	45.9		ug/L		92	71 - 134	2	20
1,2-Dibromoethane	50.0	48.8		ug/L		98	80 - 120	2	20
Dibromomethane	50.0	46.7		ug/L		93	80 - 120	2	20
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120	0	20
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	80 - 120	1	20
1,4-Dichlorobenzene	50.0	48.4		ug/L		97	80 - 120	2	20
Dichlorodifluoromethane	50.0	46.1		ug/L		92	47 - 155	2	40
1,1-Dichloroethane	50.0	49.6		ug/L		99	80 - 120	1	20
1,2-Dichloroethane	50.0	49.7		ug/L		99	80 - 120	2	50
1,1-Dichloroethene	50.0	48.3		ug/L		97	76 - 120	2	20
1,2-Dichloropropane	50.0	48.8		ug/L		98	80 - 120	0	20
1,3-Dichloropropane	50.0	49.7		ug/L		99	80 - 120	1	20
2,2-Dichloropropane	50.0	51.0		ug/L		102	76 - 126	1	20
1,1-Dichloropropene	50.0	51.5		ug/L		103	80 - 120	1	20
Ethylbenzene	50.0	49.6		ug/L		99	80 - 120	1	20
Hexachlorobutadiene	50.0	58.2		ug/L		116	60 - 140	3	20
2-Hexanone	250	246		ug/L		98	74 - 127	6	20
Iodomethane	50.0	50.5		ug/L		101	52 - 142	0	30
Isopropylbenzene	50.0	51.4		ug/L		103	80 - 120	0	20
Methylene Chloride	50.0	45.9		ug/L		92	80 - 120	1	20
4-Methyl-2-pentanone	250	247		ug/L		99	76 - 124	5	20
Methyl tert-butyl ether	50.0	47.7		ug/L		95	80 - 120	1	20
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	80 - 120	0	20
Naphthalene	50.0	47.8		ug/L		96	59 - 140	1	20
n-Butylbenzene	50.0	54.7		ug/L		109	80 - 120	0	20
N-Propylbenzene	50.0	50.0		ug/L		100	80 - 120	0	20
o-Xylene	50.0	49.3		ug/L		99	80 - 120	1	30
p-Isopropyltoluene	50.0	53.6		ug/L		107	80 - 120	0	20
sec-Butylbenzene	50.0	55.7		ug/L		111	80 - 120	1	20
Styrene	50.0	51.1		ug/L		102	80 - 120	0	20
tert-Butylbenzene	50.0	50.8		ug/L		102	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	49.2		ug/L		98	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	46.0		ug/L		92	80 - 120	1	20
Tetrachloroethylene	50.0	53.9		ug/L		108	80 - 121	1	20
Toluene	50.0	50.4		ug/L		101	80 - 113	0	20
trans-1,4-Dichloro-2-butene	50.0	46.9		ug/L		94	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	48.1		ug/L		96	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	49.5		ug/L		99	80 - 120	2	30
1,2,3-Trichlorobenzene	50.0	50.4		ug/L		101	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	48.7		ug/L		97	68 - 128	0	20
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	80 - 120	2	20
1,1,2-Trichloroethane	50.0	46.5		ug/L		93	80 - 120	2	20
Trichloroethene	50.0	51.6		ug/L		103	80 - 120	1	20
Trichlorofluoromethane	50.0	53.6		ug/L		107	60 - 141	5	20
1,2,3-Trichloropropane	50.0	49.3		ug/L		99	80 - 123	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.6		ug/L		109	79 - 124	0	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: LCSD 680-570605/6

Matrix: Water

Analysis Batch: 570605

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
1,2,4-Trimethylbenzene	50.0	49.7		ug/L		99	80 - 120	0	20
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	80 - 120	0	20
Vinyl acetate	100	108		ug/L		108	67 - 135	3	20
Vinyl chloride	50.0	50.3		ug/L		101	71 - 128	1	20
Xylenes, Total	100	99.8		ug/L		100	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	96		80 - 122
1,2-Dichloroethane-d4 (Surr)	92		73 - 131
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: 680-168493-1 MS

Matrix: Water

Analysis Batch: 570605

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	7.6	J F2 F1	250	7.29	J F1	ug/L		-0.1	60 - 154
Acrylonitrile	10	U F2 F1	500	12.8	J F1	ug/L		3	72 - 132
Benzene	1.2		50.0	50.4		ug/L		98	73 - 131
Bromobenzene	0.50	U F1	50.0	31.6	* F1	ug/L		63	79 - 124
Bromochloromethane	0.45	U F1	50.0	21.4	F1	ug/L		43	77 - 122
Bromodichloromethane	0.44	U F1	50.0	29.9	F1	ug/L		60	77 - 129
Bromoform	0.43	U F2 F1	50.0	6.28	* F1	ug/L		13	69 - 135
Bromomethane	2.5	U	50.0	58.4		ug/L		117	20 - 180
2-Butanone (MEK)	16	F2 F1	250	8.05	J F1	ug/L		-3	75 - 133
Carbon disulfide	1.5	J B	50.0	48.2		ug/L		93	73 - 127
Carbon tetrachloride	0.33	U	50.0	47.9		ug/L		96	75 - 130
Chlorobenzene	51	F1	50.0	107	*	ug/L		111	80 - 120
Chloroethane	2.5	U F2	50.0	42.2		ug/L		84	50 - 151
Chloroform	0.50	U	50.0	44.0		ug/L		88	79 - 122
Chloromethane	0.40	U	50.0	43.2		ug/L		86	63 - 126
2-Chlorotoluene	0.27	U	50.0	60.2	*	ug/L		120	77 - 121
4-Chlorotoluene	0.45	U	50.0	53.3	*	ug/L		107	80 - 120
cis-1,2-Dichloroethene	0.62	J	50.0	45.9		ug/L		91	80 - 122
cis-1,3-Dichloropropene	0.40	U F1	50.0	26.3	F1	ug/L		53	80 - 133
Dibromochloromethane	0.32	U F2 F1	50.0	14.1	F1	ug/L		28	71 - 136
1,2-Dibromo-3-Chloropropane	1.1	U F2 F1	50.0	2.18	J * F1	ug/L		4	59 - 141
1,2-Dibromoethane	0.44	U F2 F1	50.0	7.38	F1	ug/L		15	77 - 131
Dibromomethane	0.35	U F2 F1	50.0	10.5	F1	ug/L		21	80 - 122
1,2-Dichlorobenzene	0.37	U F2 F1	50.0	27.4	* F1	ug/L		55	80 - 120
1,3-Dichlorobenzene	0.43	U	50.0	48.6	*	ug/L		97	80 - 120
1,4-Dichlorobenzene	0.96	J B	50.0	41.3	*	ug/L		81	80 - 120
Dichlorodifluoromethane	0.60	U	50.0	44.9		ug/L		90	51 - 140
1,1-Dichloroethane	0.38	U	50.0	49.4		ug/L		99	80 - 120
1,2-Dichloroethane	5.5	F1	50.0	19.3	F1	ug/L		28	75 - 130
1,1-Dichloroethene	0.36	U	50.0	40.5		ug/L		81	74 - 125
1,2-Dichloropropane	0.67	U	50.0	39.9		ug/L		80	80 - 123

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: 680-168493-1 MS

Matrix: Water

Analysis Batch: 570605

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	0.34	U F2 F1	50.0	11.9	F1	ug/L		24	78 - 127
2,2-Dichloropropane	0.37	U	50.0	38.6		ug/L		77	72 - 133
1,1-Dichloropropene	0.34	U	50.0	49.1		ug/L		98	78 - 127
Ethylbenzene	0.33	U F1	50.0	60.3	* F1	ug/L		121	80 - 120
Hexachlorobutadiene	2.5	U F1	50.0	152	* F1	ug/L		303	77 - 129
2-Hexanone	2.0	U F2 F1	250	9.22	J F1	ug/L		4	70 - 141
Iodomethane	5.0	U F2	50.0	28.4		ug/L		57	15 - 162
Isopropylbenzene	0.35	U F1	50.0	70.9	* F1	ug/L		142	80 - 120
Methylene Chloride	2.5	U F1	50.0	30.0	F1	ug/L		60	76 - 129
4-Methyl-2-pentanone	2.1	U F2 F1	250	12.3	F1	ug/L		5	75 - 135
Methyl tert-butyl ether	0.30	U F2 F1	50.0	11.4	F1	ug/L		23	74 - 135
m-Xylene & p-Xylene	0.35	U	50.0	60.1	*	ug/L		120	80 - 120
Naphthalene	2.5	U F2 F1	50.0	4.15	J * F1	ug/L		8	69 - 148
n-Butylbenzene	0.47	U F1	50.0	152	* F1	ug/L		305	78 - 124
N-Propylbenzene	0.38	U F1	50.0	72.6	* F1	ug/L		145	80 - 120
o-Xylene	0.23	U	50.0	56.6	*	ug/L		113	80 - 120
p-Isopropyltoluene	0.48	U F1	50.0	125	* F1	ug/L		251	80 - 120
sec-Butylbenzene	0.42	U F1	50.0	111	* F1	ug/L		222	76 - 125
Styrene	0.27	U	50.0	45.9	*	ug/L		92	80 - 122
tert-Butylbenzene	0.45	U F1	50.0	86.1	* F1	ug/L		172	80 - 120
1,1,1,2-Tetrachloroethane	0.37	U	50.0	42.1	*	ug/L		84	80 - 120
1,1,2,2-Tetrachloroethane	0.62	U F2 F1	50.0	5.93	* F1	ug/L		12	72 - 128
Tetrachloroethylene	0.74	U F1	50.0	56.0		ug/L		112	77 - 123
Toluene	0.57	J	50.0	51.0		ug/L		101	80 - 122
trans-1,4-Dichloro-2-butene	0.51	U F2 F1	50.0	3.01	* F1	ug/L		6	55 - 147
trans-1,2-Dichloroethene	1.3	B	50.0	48.1		ug/L		94	78 - 123
trans-1,3-Dichloropropene	0.42	U F2 F1	50.0	13.0	F1	ug/L		26	74 - 140
1,2,3-Trichlorobenzene	2.5	U F2 F1	50.0	10.9	* F1	ug/L		22	61 - 151
1,2,4-Trichlorobenzene	2.5	U F2 F1	50.0	17.1	* F1	ug/L		34	77 - 131
1,1,1-Trichloroethane	0.37	U	50.0	46.1		ug/L		92	74 - 128
1,1,2-Trichloroethane	0.33	U F2 F1	50.0	11.5	F1	ug/L		23	79 - 125
Trichloroethene	0.48	U	50.0	49.7		ug/L		99	80 - 123
Trichlorofluoromethane	0.42	U	50.0	30.0		ug/L		60	58 - 145
1,2,3-Trichloropropane	0.39	U F2 F1	50.0	3.94	* F1	ug/L		8	70 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	50.0	45.5		ug/L		91	65 - 131
1,2,4-Trimethylbenzene	0.47	U F1	50.0	61.5	*	ug/L		123	80 - 124
1,3,5-Trimethylbenzene	0.31	U F1	50.0	70.8	* F1	ug/L		142	80 - 120
Vinyl acetate	0.81	U F2 F1	100	12.9	F1	ug/L		13	15 - 190
Vinyl chloride	0.50	U	50.0	54.4		ug/L		109	68 - 132
Xylenes, Total	0.23	U	100	117		ug/L		117	80 - 120
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102	*	80 - 120						
Dibromofluoromethane (Surr)	78	X	80 - 122						
1,2-Dichloroethane-d4 (Surr)	36	X	73 - 131						
Toluene-d8 (Surr)	108	*	80 - 120						

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: 680-168493-1 MSD

Matrix: Water

Analysis Batch: 570605

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	7.6	J F2 F1	250	13.7	F1 F2	ug/L		2	60 - 154	61	30
Acrylonitrile	10	U F2 F1	500	26.4	F1 F2	ug/L		5	72 - 132	70	20
Benzene	1.2		50.0	51.1		ug/L		100	73 - 131	1	20
Bromobenzene	0.50	U F1	50.0	36.9	* F1	ug/L		74	79 - 124	16	20
Bromochloromethane	0.45	U F1	50.0	24.8	F1	ug/L		50	77 - 122	15	20
Bromodichloromethane	0.44	U F1	50.0	33.9	F1	ug/L		68	77 - 129	12	20
Bromoform	0.43	U F2 F1	50.0	10.8	* F1 F2	ug/L		22	69 - 135	53	20
Bromomethane	2.5	U	50.0	71.7		ug/L		143	20 - 180	20	20
2-Butanone (MEK)	16	F2 F1	250	16.3	F1 F2	ug/L		0.2	75 - 133	68	20
Carbon disulfide	1.5	J B	50.0	49.5		ug/L		96	73 - 127	3	20
Carbon tetrachloride	0.33	U	50.0	47.5		ug/L		95	75 - 130	1	20
Chlorobenzene	51	F1	50.0	113	* F1	ug/L		124	80 - 120	6	20
Chloroethane	2.5	U F2	50.0	59.7	F2	ug/L		119	50 - 151	34	20
Chloroform	0.50	U	50.0	44.1		ug/L		88	79 - 122	0	20
Chloromethane	0.40	U	50.0	51.6		ug/L		103	63 - 126	18	30
2-Chlorotoluene	0.27	U	50.0	60.3	*	ug/L		121	77 - 121	0	20
4-Chlorotoluene	0.45	U	50.0	53.9	*	ug/L		108	80 - 120	1	20
cis-1,2-Dichloroethene	0.62	J	50.0	45.9		ug/L		91	80 - 122	0	20
cis-1,3-Dichloropropene	0.40	U F1	50.0	32.2	F1	ug/L		64	80 - 133	20	20
Dibromochloromethane	0.32	U F2 F1	50.0	19.8	F1 F2	ug/L		40	71 - 136	34	20
1,2-Dibromo-3-Chloropropane	1.1	U F2 F1	50.0	5.07	* F1 F2	ug/L		10	59 - 141	80	20
1,2-Dibromoethane	0.44	U F2 F1	50.0	12.7	F1 F2	ug/L		25	77 - 131	53	20
Dibromomethane	0.35	U F2 F1	50.0	14.6	F1 F2	ug/L		29	80 - 122	33	20
1,2-Dichlorobenzene	0.37	U F2 F1	50.0	35.5	* F1 F2	ug/L		71	80 - 120	26	20
1,3-Dichlorobenzene	0.43	U	50.0	53.3	*	ug/L		107	80 - 120	9	20
1,4-Dichlorobenzene	0.96	J B	50.0	47.2	*	ug/L		92	80 - 120	13	20
Dichlorodifluoromethane	0.60	U	50.0	56.6		ug/L		113	51 - 140	23	40
1,1-Dichloroethane	0.38	U	50.0	49.4		ug/L		99	80 - 120	0	20
1,2-Dichloroethane	5.5	F1	50.0	23.0	F1	ug/L		35	75 - 130	18	50
1,1-Dichloroethene	0.36	U	50.0	45.4		ug/L		91	74 - 125	12	20
1,2-Dichloropropane	0.67	U	50.0	42.7		ug/L		85	80 - 123	7	20
1,3-Dichloropropane	0.34	U F2 F1	50.0	17.6	F1 F2	ug/L		35	78 - 127	39	20
2,2-Dichloropropane	0.37	U	50.0	37.6		ug/L		75	72 - 133	2	20
1,1-Dichloropropene	0.34	U	50.0	48.8		ug/L		98	78 - 127	0	20
Ethylbenzene	0.33	U F1	50.0	59.4	*	ug/L		119	80 - 120	2	20
Hexachlorobutadiene	2.5	U F1	50.0	142	* F1	ug/L		284	77 - 129	7	20
2-Hexanone	2.0	U F2 F1	250	21.6	F1 F2	ug/L		9	70 - 141	80	20
Iodomethane	5.0	U F2	50.0	41.3	F2	ug/L		83	15 - 162	37	30
Isopropylbenzene	0.35	U F1	50.0	69.2	* F1	ug/L		138	80 - 120	2	20
Methylene Chloride	2.5	U F1	50.0	32.6	F1	ug/L		65	76 - 129	8	20
4-Methyl-2-pentanone	2.1	U F2 F1	250	25.1	F1 F2	ug/L		10	75 - 135	68	20
Methyl tert-butyl ether	0.30	U F2 F1	50.0	14.4	F1 F2	ug/L		29	74 - 135	23	20
m-Xylene & p-Xylene	0.35	U	50.0	59.6	*	ug/L		119	80 - 120	1	20
Naphthalene	2.5	U F2 F1	50.0	9.22	* F1 F2	ug/L		18	69 - 148	76	20
n-Butylbenzene	0.47	U F1	50.0	141	* F1	ug/L		281	78 - 124	8	20
N-Propylbenzene	0.38	U F1	50.0	69.8	* F1	ug/L		140	80 - 120	4	20
o-Xylene	0.23	U	50.0	56.4	*	ug/L		113	80 - 120	0	30
p-Isopropyltoluene	0.48	U F1	50.0	117	* F1	ug/L		233	80 - 120	7	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: 680-168493-1 MSD

Matrix: Water

Analysis Batch: 570605

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	0.42	U F1	50.0	106	* F1	ug/L		212	76 - 125	5	20
Styrene	0.27	U	50.0	48.0	*	ug/L		96	80 - 122	5	20
tert-Butylbenzene	0.45	U F1	50.0	82.7	* F1	ug/L		165	80 - 120	4	20
1,1,1,2-Tetrachloroethane	0.37	U	50.0	43.8	*	ug/L		88	80 - 120	4	20
1,1,2,2-Tetrachloroethane	0.62	U F2 F1	50.0	9.90	* F1 F2	ug/L		20	72 - 128	50	20
Tetrachloroethylene	0.74	U F1	50.0	62.9	F1	ug/L		126	77 - 123	12	20
Toluene	0.57	J	50.0	57.2		ug/L		113	80 - 122	11	20
trans-1,4-Dichloro-2-butene	0.51	U F2 F1	50.0	5.24	* F1 F2	ug/L		10	55 - 147	54	30
trans-1,2-Dichloroethene	1.3	B	50.0	48.3		ug/L		94	78 - 123	0	20
trans-1,3-Dichloropropene	0.42	U F2 F1	50.0	18.6	F1 F2	ug/L		37	74 - 140	36	30
1,2,3-Trichlorobenzene	2.5	U F2 F1	50.0	19.5	* F1 F2	ug/L		39	61 - 151	57	20
1,2,4-Trichlorobenzene	2.5	U F2 F1	50.0	27.0	* F1 F2	ug/L		54	77 - 131	45	20
1,1,1-Trichloroethane	0.37	U	50.0	45.5		ug/L		91	74 - 128	1	20
1,1,2-Trichloroethane	0.33	U F2 F1	50.0	17.1	F1 F2	ug/L		34	79 - 125	39	20
Trichloroethene	0.48	U	50.0	50.9		ug/L		102	80 - 123	2	20
Trichlorofluoromethane	0.42	U	50.0	35.8		ug/L		72	58 - 145	18	20
1,2,3-Trichloropropane	0.39	U F2 F1	50.0	7.10	* F1 F2	ug/L		14	70 - 132	57	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	50.0	53.1		ug/L		106	65 - 131	15	20
1,2,4-Trimethylbenzene	0.47	U F1	50.0	62.5	* F1	ug/L		125	80 - 124	2	20
1,3,5-Trimethylbenzene	0.31	U F1	50.0	68.7	* F1	ug/L		137	80 - 120	3	20
Vinyl acetate	0.81	U F2 F1	100	19.1	F2	ug/L		19	15 - 190	39	20
Vinyl chloride	0.50	U	50.0	64.9		ug/L		130	68 - 132	18	20
Xylenes, Total	0.23	U	100	116		ug/L		116	80 - 120	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	*	80 - 120
Dibromofluoromethane (Surr)	80		80 - 122
1,2-Dichloroethane-d4 (Surr)	39	X	73 - 131
Toluene-d8 (Surr)	108	*	80 - 120

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-570190/8

Matrix: Water

Analysis Batch: 570190

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			05/14/19 10:31	1
Ethylene	0.50	U	1.0	0.50	ug/L			05/14/19 10:31	1
Methane	0.29	U	0.58	0.29	ug/L			05/14/19 10:31	1
Methane (TCD)	39	U	390	39	ug/L			05/14/19 10:31	1

Lab Sample ID: LCS 680-570190/3

Matrix: Water

Analysis Batch: 570190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	287		ug/L		99	75 - 125

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 680-570190/3

Matrix: Water

Analysis Batch: 570190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene	269	266		ug/L		99	75 - 125
Methane	154	154		ug/L		100	75 - 125

Lab Sample ID: LCS 680-570190/6

Matrix: Water

Analysis Batch: 570190

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	1960		ug/L		102	75 - 125

Lab Sample ID: LCSD 680-570190/4

Matrix: Water

Analysis Batch: 570190

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	302		ug/L		105	75 - 125	5	30
Ethylene	269	276		ug/L		102	75 - 125	3	30
Methane	154	155		ug/L		101	75 - 125	1	30

Lab Sample ID: LCSD 680-570190/7

Matrix: Water

Analysis Batch: 570190

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	1920		ug/L		100	75 - 125	2	30

Lab Sample ID: 680-168493-1 MS

Matrix: Water

Analysis Batch: 570190

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	19		288	292		ug/L		95	75 - 125
Ethylene	190		269	447		ug/L		95	75 - 125

Lab Sample ID: 680-168493-1 MSD

Matrix: Water

Analysis Batch: 570190

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	19		288	306		ug/L		99	75 - 125	5	30
Ethylene	190		269	475		ug/L		105	75 - 125	6	30

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-570216/2

Matrix: Water

Analysis Batch: 570216

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			05/14/19 10:45	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: LCS 680-570216/3

Matrix: Water

Analysis Batch: 570216

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	10.1		mg/L		101	87 - 112

Lab Sample ID: LCSD 680-570216/4

Matrix: Water

Analysis Batch: 570216

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	10.1		mg/L		101	87 - 112	0	15

Lab Sample ID: 680-168493-1 MS

Matrix: Water

Analysis Batch: 570216

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	0.40	U F1	10.0	8.15	F1	mg/L		82	87 - 112

Lab Sample ID: 680-168493-1 MSD

Matrix: Water

Analysis Batch: 570216

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	0.40	U F1	10.0	8.40	F1	mg/L		84	87 - 112	3	15

Lab Sample ID: MB 680-570289/2

Matrix: Water

Analysis Batch: 570289

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			05/14/19 14:48	1

Lab Sample ID: LCS 680-570289/3

Matrix: Water

Analysis Batch: 570289

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	10.7		mg/L		107	87 - 112

Lab Sample ID: LCSD 680-570289/4

Matrix: Water

Analysis Batch: 570289

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	10.4		mg/L		104	87 - 112	2	15

Lab Sample ID: 680-168493-2 MS

Matrix: Water

Analysis Batch: 570289

Client Sample ID: OLF-G72 Port 2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	0.40	U F1	10.0	10.0		mg/L		100	87 - 112

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: 680-168493-2 MSD

Matrix: Water

Analysis Batch: 570289

Client Sample ID: OLF-G72 Port 2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	0.40	U F1	10.0	11.3	F1	mg/L		113	87 - 112	12	15

Lab Sample ID: 680-168493-3 DU

Matrix: Water

Analysis Batch: 570289

Client Sample ID: OLF-G72 Port 3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	2.6		2.12	F5	mg/L		19	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-570090/1-A

Matrix: Water

Analysis Batch: 570402

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 570090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		05/13/19 14:05	05/14/19 15:44	1

Lab Sample ID: LCS 680-570090/2-A

Matrix: Water

Analysis Batch: 570402

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 570090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	5000	4830		ug/L		97	80 - 120

Lab Sample ID: MB 680-569546/1-B

Matrix: Water

Analysis Batch: 569839

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 569547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		05/08/19 14:24	05/09/19 20:33	1

Lab Sample ID: LCS 680-569546/2-B

Matrix: Water

Analysis Batch: 569839

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 569547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	5000	4910		ug/L		98	80 - 120

Lab Sample ID: 680-168493-1 MS

Matrix: Water

Analysis Batch: 570402

Client Sample ID: OLF-G72 Port 1

Prep Type: Dissolved

Prep Batch: 570090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	24000		5000	28100	4	ug/L		88	75 - 125

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

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

Lab Sample ID: 680-168493-1 MSD

Matrix: Water

Analysis Batch: 570402

Client Sample ID: OLF-G72 Port 1

Prep Type: Dissolved

Prep Batch: 570090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Sodium	24000		5000	29100	4	ug/L		107	75 - 125	3	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-569663/2

Matrix: Water

Analysis Batch: 569663

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/08/19 23:47	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/08/19 23:47	1

Lab Sample ID: LCS 680-569663/3

Matrix: Water

Analysis Batch: 569663

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	19.1		mg/L		96	80 - 120
Total Organic Carbon - Quad	20.0	19.1		mg/L		96	80 - 120
TOC Result 1	20.0	18.8		mg/L		94	80 - 120
TOC Result 2	20.0	18.9		mg/L		95	80 - 120
TOC Result 3	20.0	19.5		mg/L		97	80 - 120
TOC Result 4	20.0	19.3		mg/L		97	80 - 120

Lab Sample ID: LCSD 680-569663/4

Matrix: Water

Analysis Batch: 569663

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.2		mg/L		96	80 - 120	0	25
Total Organic Carbon - Quad	20.0	19.2		mg/L		96	80 - 120	0	25
TOC Result 1	20.0	18.9		mg/L		95	80 - 120	1	25
TOC Result 2	20.0	19.1		mg/L		95	80 - 120	1	25
TOC Result 3	20.0	19.4		mg/L		97	80 - 120	0	25
TOC Result 4	20.0	19.4		mg/L		97	80 - 120	0	25

Lab Sample ID: 680-168493-1 MS

Matrix: Water

Analysis Batch: 569663

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	79		20.0	99.1		mg/L		100	80 - 120
Total Organic Carbon - Quad	79		20.0	99.1		mg/L		100	80 - 120
TOC Result 1	78		20.0	97.5		mg/L		98	80 - 120
TOC Result 2	79		20.0	98.2		mg/L		98	80 - 120
TOC Result 3	80		20.0	100	4	mg/L		100	80 - 120
TOC Result 4	80		20.0	101	4	mg/L		102	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 680-168493-1 MSD

Matrix: Water

Analysis Batch: 569663

Client Sample ID: OLF-G72 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	79		20.0	99.2		mg/L		100	80 - 120	0	25
Total Organic Carbon - Quad	79		20.0	99.2		mg/L		100	80 - 120	0	25
TOC Result 1	78		20.0	97.5		mg/L		98	80 - 120	0	25
TOC Result 2	79		20.0	98.1		mg/L		98	80 - 120	0	25
TOC Result 3	80		20.0	100	4	mg/L		101	80 - 120	0	25
TOC Result 4	80		20.0	101	4	mg/L		103	80 - 120	0	25

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

GC/MS VOA

Analysis Batch: 570450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-8	DUP 322	Total/NA	Water	8260B	
MB 680-570450/20	Method Blank	Total/NA	Water	8260B	
LCS 680-570450/1016	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-570450/17	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 570605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-1	OLF-G72 Port 1	Total/NA	Water	8260B	
680-168493-2	OLF-G72 Port 2	Total/NA	Water	8260B	
680-168493-3	OLF-G72 Port 3	Total/NA	Water	8260B	
680-168493-4	OLF-G72 Port 4	Total/NA	Water	8260B	
680-168493-5	OLF-G72 Port 5	Total/NA	Water	8260B	
680-168493-6	OLF-G72 Port 6	Total/NA	Water	8260B	
680-168493-7	TB 527	Total/NA	Water	8260B	
MB 680-570605/10	Method Blank	Total/NA	Water	8260B	
LCS 680-570605/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-570605/6	Lab Control Sample Dup	Total/NA	Water	8260B	
680-168493-1 MS	OLF-G72 Port 1	Total/NA	Water	8260B	
680-168493-1 MSD	OLF-G72 Port 1	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 570190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-1	OLF-G72 Port 1	Total/NA	Water	RSK-175	
680-168493-2	OLF-G72 Port 2	Total/NA	Water	RSK-175	
680-168493-3	OLF-G72 Port 3	Total/NA	Water	RSK-175	
680-168493-4	OLF-G72 Port 4	Total/NA	Water	RSK-175	
680-168493-5	OLF-G72 Port 5	Total/NA	Water	RSK-175	
680-168493-6	OLF-G72 Port 6	Total/NA	Water	RSK-175	
MB 680-570190/8	Method Blank	Total/NA	Water	RSK-175	
LCS 680-570190/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-570190/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-570190/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-570190/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	
680-168493-1 MS	OLF-G72 Port 1	Total/NA	Water	RSK-175	
680-168493-1 MSD	OLF-G72 Port 1	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 570216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-1	OLF-G72 Port 1	Total/NA	Water	9056A	
MB 680-570216/2	Method Blank	Total/NA	Water	9056A	
LCS 680-570216/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-570216/4	Lab Control Sample Dup	Total/NA	Water	9056A	
680-168493-1 MS	OLF-G72 Port 1	Total/NA	Water	9056A	
680-168493-1 MSD	OLF-G72 Port 1	Total/NA	Water	9056A	

Analysis Batch: 570289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-2	OLF-G72 Port 2	Total/NA	Water	9056A	

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QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

HPLC/IC (Continued)

Analysis Batch: 570289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-3	OLF-G72 Port 3	Total/NA	Water	9056A	
680-168493-4	OLF-G72 Port 4	Total/NA	Water	9056A	
680-168493-5	OLF-G72 Port 5	Total/NA	Water	9056A	
680-168493-6	OLF-G72 Port 6	Total/NA	Water	9056A	
680-168493-8	DUP 322	Total/NA	Water	9056A	
MB 680-570289/2	Method Blank	Total/NA	Water	9056A	
LCS 680-570289/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-570289/4	Lab Control Sample Dup	Total/NA	Water	9056A	
680-168493-2 MS	OLF-G72 Port 2	Total/NA	Water	9056A	
680-168493-2 MSD	OLF-G72 Port 2	Total/NA	Water	9056A	
680-168493-3 DU	OLF-G72 Port 3	Total/NA	Water	9056A	

Metals

Filtration Batch: 569546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-3	OLF-G72 Port 3	Dissolved	Water	FILTRATION	
680-168493-5	OLF-G72 Port 5	Dissolved	Water	FILTRATION	
680-168493-6	OLF-G72 Port 6	Dissolved	Water	FILTRATION	
680-168493-8	DUP 322	Dissolved	Water	FILTRATION	
MB 680-569546/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-569546/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	

Prep Batch: 569547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-3	OLF-G72 Port 3	Dissolved	Water	3005A	569546
680-168493-5	OLF-G72 Port 5	Dissolved	Water	3005A	569546
680-168493-6	OLF-G72 Port 6	Dissolved	Water	3005A	569546
680-168493-8	DUP 322	Dissolved	Water	3005A	569546
MB 680-569546/1-B	Method Blank	Dissolved	Water	3005A	569546
LCS 680-569546/2-B	Lab Control Sample	Dissolved	Water	3005A	569546

Analysis Batch: 569839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-3	OLF-G72 Port 3	Dissolved	Water	6010C	569547
680-168493-5	OLF-G72 Port 5	Dissolved	Water	6010C	569547
680-168493-6	OLF-G72 Port 6	Dissolved	Water	6010C	569547
680-168493-8	DUP 322	Dissolved	Water	6010C	569547
MB 680-569546/1-B	Method Blank	Dissolved	Water	6010C	569547
LCS 680-569546/2-B	Lab Control Sample	Dissolved	Water	6010C	569547

Filtration Batch: 570088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-1	OLF-G72 Port 1	Dissolved	Water	FILTRATION	
680-168493-2	OLF-G72 Port 2	Dissolved	Water	FILTRATION	
680-168493-4	OLF-G72 Port 4	Dissolved	Water	FILTRATION	
680-168493-1 MS	OLF-G72 Port 1	Dissolved	Water	FILTRATION	
680-168493-1 MSD	OLF-G72 Port 1	Dissolved	Water	FILTRATION	

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Metals

Prep Batch: 570090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-1	OLF-G72 Port 1	Dissolved	Water	3005A	570088
680-168493-2	OLF-G72 Port 2	Dissolved	Water	3005A	570088
680-168493-4	OLF-G72 Port 4	Dissolved	Water	3005A	570088
MB 680-570090/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-570090/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-168493-1 MS	OLF-G72 Port 1	Dissolved	Water	3005A	570088
680-168493-1 MSD	OLF-G72 Port 1	Dissolved	Water	3005A	570088

Analysis Batch: 570402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-1	OLF-G72 Port 1	Dissolved	Water	6010C	570090
680-168493-2	OLF-G72 Port 2	Dissolved	Water	6010C	570090
680-168493-4	OLF-G72 Port 4	Dissolved	Water	6010C	570090
MB 680-570090/1-A	Method Blank	Total Recoverable	Water	6010C	570090
LCS 680-570090/2-A	Lab Control Sample	Total Recoverable	Water	6010C	570090
680-168493-1 MS	OLF-G72 Port 1	Dissolved	Water	6010C	570090
680-168493-1 MSD	OLF-G72 Port 1	Dissolved	Water	6010C	570090

General Chemistry

Analysis Batch: 569663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-1	OLF-G72 Port 1	Total/NA	Water	9060A	
680-168493-2	OLF-G72 Port 2	Total/NA	Water	9060A	
680-168493-3	OLF-G72 Port 3	Total/NA	Water	9060A	
680-168493-4	OLF-G72 Port 4	Total/NA	Water	9060A	
680-168493-5	OLF-G72 Port 5	Total/NA	Water	9060A	
680-168493-6	OLF-G72 Port 6	Total/NA	Water	9060A	
680-168493-8	DUP 322	Total/NA	Water	9060A	
MB 680-569663/2	Method Blank	Total/NA	Water	9060A	
LCS 680-569663/3	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-569663/4	Lab Control Sample Dup	Total/NA	Water	9060A	
680-168493-1 MS	OLF-G72 Port 1	Total/NA	Water	9060A	
680-168493-1 MSD	OLF-G72 Port 1	Total/NA	Water	9060A	

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 1

Lab Sample ID: 680-168493-1

Date Collected: 05/02/19 10:20

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570605	05/16/19 14:57	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570190	05/14/19 14:08	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570216	05/14/19 11:36	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	570088	05/13/19 14:04	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	570090	05/13/19 14:05	AJR	TAL SAV
Dissolved	Analysis	6010C		1			570402	05/14/19 16:01	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569663	05/09/19 04:46	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G72 Port 2

Lab Sample ID: 680-168493-2

Date Collected: 05/02/19 10:45

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570605	05/16/19 15:20	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570190	05/14/19 14:47	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570289	05/14/19 16:23	UI	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	570088	05/13/19 14:04	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	570090	05/13/19 14:05	AJR	TAL SAV
Dissolved	Analysis	6010C		1			570402	05/14/19 16:51	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		2	40 mL	40 mL	569663	05/09/19 05:45	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G72 Port 3

Lab Sample ID: 680-168493-3

Date Collected: 05/02/19 10:55

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570605	05/16/19 15:44	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570190	05/14/19 15:00	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570289	05/14/19 17:02	UI	TAL SAV
		Instrument ID: CICH								

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 3

Lab Sample ID: 680-168493-3

Date Collected: 05/02/19 10:55

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	569546	05/08/19 14:21	BJB	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	569547	05/08/19 14:24	BJB	TAL SAV
Dissolved	Analysis	6010C		1			569839	05/09/19 22:34	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569663	05/09/19 06:03	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G72 Port 4

Lab Sample ID: 680-168493-4

Date Collected: 05/02/19 11:05

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570605	05/16/19 16:07	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570190	05/14/19 15:13	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570289	05/14/19 17:27	UI	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	570088	05/13/19 14:04	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	570090	05/13/19 14:05	AJR	TAL SAV
Dissolved	Analysis	6010C		1			570402	05/14/19 16:22	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569663	05/09/19 06:19	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G72 Port 5

Lab Sample ID: 680-168493-5

Date Collected: 05/02/19 11:25

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570605	05/16/19 16:31	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570190	05/14/19 15:26	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570289	05/14/19 17:40	UI	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	569546	05/08/19 14:21	BJB	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	569547	05/08/19 14:24	BJB	TAL SAV
Dissolved	Analysis	6010C		1			569839	05/09/19 22:13	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569663	05/09/19 06:37	KDM	TAL SAV
		Instrument ID: TOC7								

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Client Sample ID: OLF-G72 Port 6

Lab Sample ID: 680-168493-6

Date Collected: 05/02/19 12:00

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570605	05/16/19 16:54	Y1S	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570190	05/14/19 15:39	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570289	05/14/19 17:53	UI	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	569546	05/08/19 14:22	BJB	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	569547	05/08/19 14:24	BJB	TAL SAV
Dissolved	Analysis	6010C		1			569839	05/09/19 22:39	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569663	05/09/19 06:55	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: TB 527

Lab Sample ID: 680-168493-7

Date Collected: 05/02/19 13:45

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570605	05/16/19 14:33	Y1S	TAL SAV
		Instrument ID: CMSB								

Client Sample ID: DUP 322

Lab Sample ID: 680-168493-8

Date Collected: 05/01/19 00:00

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570450	05/15/19 20:04	SMP	TAL SAV
		Instrument ID: CMSB								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570289	05/14/19 18:19	UI	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	569546	05/08/19 14:21	BJB	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	569547	05/08/19 14:24	BJB	TAL SAV
Dissolved	Analysis	6010C		1			569839	05/09/19 22:09	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569663	05/09/19 07:44	KDM	TAL SAV
		Instrument ID: TOC7								

Laboratory References:

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

Eurofins TestAmerica, Savannah

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Laboratory: Eurofins TestAmerica, Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-19 *
Alaska	State Program	10		06-30-19 *
Alaska (UST)	State Program	10	UST-104	09-22-19
ANAB	DoD		L2463	09-22-19
ANAB	ISO/IEC 17025		L2463.01	09-22-19
Arizona	State Program	9	AZ0808	12-14-19
Arkansas DEQ	State Program	6	88-0692	02-01-20
California	State Program	9	2939	06-30-19 *
Colorado	State Program	8	N/A	12-31-19
Connecticut	State Program	1	PH-0161	03-31-21
GA Dept. of Agriculture	State Program	4	N/A	06-12-19
Georgia	State Program	4	N/A	06-30-19 *
Georgia	State Program	4	803	06-30-19 *
Guam	State Program	9	15-005r	04-17-20
Hawaii	State Program	9	N/A	06-30-19
Illinois	NELAP	5	200022	11-30-19
Indiana	State Program	5	N/A	06-30-19 *
Iowa	State Program	7	353	06-30-19 *
Kentucky (DW)	State Program	4	90084	12-31-19
Kentucky (UST)	State Program	4	18	06-30-19
Kentucky (WW)	State Program	4	90084	12-31-19
Louisiana	NELAP	6	30690	06-30-19
Louisiana (DW)	NELAP	6	LA160019	12-31-19
Maine	State Program	1	GA00006	09-25-20
Maryland	State Program	3	250	12-31-19
Massachusetts	State Program	1	M-GA006	06-30-19 *
Michigan	State Program	5	9925	06-30-19
Mississippi	State Program	4	N/A	06-30-19 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-19 *
New Jersey	NELAP	2	GA769	06-30-19 *
New Mexico	State Program	6	N/A	06-30-19 *
New York	NELAP	2	10842	04-01-20
North Carolina (DW)	State Program	4	13701	07-31-19
North Carolina (WW/SW)	State Program	4	269	12-31-19
Oklahoma	State Program	6	9984	08-31-19
Pennsylvania	NELAP	3	68-00474	06-30-19 *
Puerto Rico	State Program	2	GA00006	01-01-20
South Carolina	State Program	4	98001	06-30-19 *
Tennessee	State Program	4	TN02961	06-30-19 *
Texas	NELAP	6	T104704185-16-9	11-30-19
Texas (DW)	State Program	1	T104704185	06-30-19 *
US Fish & Wildlife	Federal		LE058448-0	07-31-19
Virginia	NELAP	3	460161	06-14-19 *
Washington	State Program	10	C805	06-10-19 *
West Virginia (DW)	State Program	3	9950C	12-31-19
West Virginia DEP	State Program	3	094	06-30-19 *
Wisconsin	State Program	5	999819810	08-31-19
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Savannah

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (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
9060A	Organic Carbon, Total (TOC)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
FILTRATION	Sample Filtration	None	TAL SAV

Protocol References:

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 TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Cooler ID 5749 Cooper | 082

Page 1 of 1

Laboratory TestAmerica
Lab Contact Jon Lawhon; Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 80(6), Landfill 3
Task # 18.094.19-05.2.500
Lab contract:

Analysis

[illegible]

NOTES:

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
 Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump

Double the number of bottles for MS/MSD

Received by (Signature): /

Date/Time:

6/12/5

Date/Time:

Received by (Signature):

Relinquished by (Signature):

Received by (Signature): *Q. Bander* 05-03-19 0903
2.9/4.0/CF 3.0/4.12

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-168493-1

Login Number: 168493

List Source: Eurofins TestAmerica, Savannah

List Number: 1

Creator: Banda, Christy S

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	

ANALYTICAL REPORT

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

Laboratory Job ID: 680-168493-2
Client Project/Site: Parcel 80(6), Landfill 3

For:
Matrix Environmental Services, LLC
1601 Blake Street
Suite 200
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt



Authorized for release by:
5/28/2019 6:29:39 PM

Jon Lawhon, Project Manager I
(912)250-0283
jon.lawhon@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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 80(6), Landfill 3

Job ID: 680-168493-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
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
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.

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
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-168493-9	TB 528	Water	05/02/19 14:00	05/03/19 09:03	
680-168493-10	OLF-G73 Port 1	Water	05/01/19 14:15	05/03/19 09:03	
680-168493-11	OLF-G73 Port 2	Water	05/01/19 14:30	05/03/19 09:03	
680-168493-12	OLF-G73 Port 3	Water	05/01/19 14:50	05/03/19 09:03	
680-168493-13	OLF-G73 Port 4	Water	05/01/19 15:20	05/03/19 09:03	
680-168493-14	OLF-G73 Port 5	Water	05/01/19 15:45	05/03/19 09:03	
680-168493-15	OLF-G74 Port 1	Water	05/01/19 11:25	05/03/19 09:03	
680-168493-16	OLF-G74 Port 2	Water	05/01/19 11:40	05/03/19 09:03	
680-168493-17	OLF-G74 Port 3	Water	05/01/19 11:55	05/03/19 09:03	
680-168493-18	OLF-G74 Port 4	Water	05/01/19 12:15	05/03/19 09:03	
680-168493-19	OLF-G74 Port 5	Water	05/01/19 12:40	05/03/19 09:03	

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Job ID: 680-168493-2

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC
Project: Parcel 80(6), Landfill 3

Report Number: 680-168493-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 5/3/2019 9:03 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.0° C and 4.1° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples TB 528 (680-168493-9), OLF-G73 Port 1 (680-168493-10), OLF-G73 Port 2 (680-168493-11), OLF-G73 Port 3 (680-168493-12), OLF-G73 Port 4 (680-168493-13), OLF-G73 Port 5 (680-168493-14), OLF-G74 Port 1 (680-168493-15), OLF-G74 Port 2 (680-168493-16), OLF-G74 Port 3 (680-168493-17), OLF-G74 Port 4 (680-168493-18) and OLF-G74 Port 5 (680-168493-19) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/15/2019 and 05/16/2019.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-570474 and 680-570605.

The method blank for analytical batch 680-570605 contained 1,4-Dichlorobenzene, n-Butylbenzene, trans-1,2-Dichloroethene and Carbon disulfide above the method detection limit (MDL). Associated samples were not re-analyzed because results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

The method blank (MB 680-570450/20) and its associated samples had low level detections for several analytes. There was insufficient holding time to re-analyze the samples within hold. The data has been qualified and reported.

The following samples were analyzed outside of analytical holding time due to instrument failures the day before. The samples were re-prepped on a night clock but they did not inject before midnight.: OLF-G73 Port 4 (680-168493-13), OLF-G73 Port 5 (680-168493-14), OLF-G74 Port 1 (680-168493-15), OLF-G74 Port 2 (680-168493-16), OLF-G74 Port 3 (680-168493-17), OLF-G74 Port 4 (680-168493-18) and OLF-G74 Port 5 (680-168493-19).

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-570450 recovered outside control limits for the following analytes: 1,1,2-Trichloro-1,2,2-Trifluoroethane. These analytes were biased high in the LCS and were not detected in the associated samples, therefore, the data have been reported.. 1,1,2-Trichloro-1,2,2-trifluoroethane exceeded the RPD limit.

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

DISSOLVED GASES

Samples OLF-G73 Port 1 (680-168493-10), OLF-G73 Port 2 (680-168493-11), OLF-G73 Port 3 (680-168493-12), OLF-G73 Port 4 (680-168493-13) and OLF-G73 Port 5 (680-168493-14) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 05/13/2019.

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

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Job ID: 680-168493-2 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

METALS (ICP) - DISSOLVED

Samples OLF-G73 Port 1 (680-168493-10), OLF-G73 Port 2 (680-168493-11), OLF-G73 Port 3 (680-168493-12), OLF-G73 Port 4 (680-168493-13), OLF-G73 Port 5 (680-168493-14), OLF-G74 Port 1 (680-168493-15), OLF-G74 Port 2 (680-168493-16), OLF-G74 Port 3 (680-168493-17), OLF-G74 Port 4 (680-168493-18) and OLF-G74 Port 5 (680-168493-19) were analyzed for Metals (ICP) - Dissolved in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/08/2019 and 05/13/2019 and analyzed on 05/09/2019 and 05/14/2019.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples OLF-G73 Port 1 (680-168493-10), OLF-G73 Port 2 (680-168493-11), OLF-G73 Port 3 (680-168493-12), OLF-G73 Port 4 (680-168493-13), OLF-G73 Port 5 (680-168493-14), OLF-G74 Port 1 (680-168493-15), OLF-G74 Port 2 (680-168493-16), OLF-G74 Port 3 (680-168493-17), OLF-G74 Port 4 (680-168493-18) and OLF-G74 Port 5 (680-168493-19) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with SW 846 9056A. The samples were analyzed on 05/14/2019 and 05/15/2019.

Sulfate failed the recovery criteria high for the MSD of sample 680-168493-2 in batch 680-570289. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Sulfate exceeded the RPD limit for the duplicate of sample 680-168493-3. Sample non-homogeneity is suspected.

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

TOTAL ORGANIC CARBON

Samples OLF-G73 Port 1 (680-168493-10), OLF-G73 Port 2 (680-168493-11), OLF-G73 Port 3 (680-168493-12), OLF-G73 Port 4 (680-168493-13), OLF-G73 Port 5 (680-168493-14), OLF-G74 Port 1 (680-168493-15), OLF-G74 Port 2 (680-168493-16), OLF-G74 Port 3 (680-168493-17), OLF-G74 Port 4 (680-168493-18) and OLF-G74 Port 5 (680-168493-19) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 05/09/2019 and 05/10/2019.

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 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: TB 528

Lab Sample ID: 680-168493-9

Date Collected: 05/02/19 14:00

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/16/19 14:10	1
Acrylonitrile	10	U	20	10	ug/L			05/16/19 14:10	1
Benzene	0.43	U	1.0	0.43	ug/L			05/16/19 14:10	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/16/19 14:10	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/16/19 14:10	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/16/19 14:10	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/16/19 14:10	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/16/19 14:10	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/16/19 14:10	1
Carbon disulfide	1.6	J B	2.0	1.0	ug/L			05/16/19 14:10	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/16/19 14:10	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/16/19 14:10	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/16/19 14:10	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/16/19 14:10	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/16/19 14:10	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/16/19 14:10	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/16/19 14:10	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/16/19 14:10	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/16/19 14:10	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/16/19 14:10	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/16/19 14:10	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/16/19 14:10	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/16/19 14:10	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/16/19 14:10	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/16/19 14:10	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/16/19 14:10	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/16/19 14:10	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/16/19 14:10	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/16/19 14:10	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/16/19 14:10	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/16/19 14:10	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/16/19 14:10	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/16/19 14:10	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/16/19 14:10	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/16/19 14:10	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/16/19 14:10	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/16/19 14:10	1
Iodomethane	5.0	U	10	5.0	ug/L			05/16/19 14:10	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/16/19 14:10	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/16/19 14:10	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/16/19 14:10	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/16/19 14:10	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/16/19 14:10	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/16/19 14:10	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 14:10	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/16/19 14:10	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/16/19 14:10	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/16/19 14:10	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/16/19 14:10	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: TB 528

Lab Sample ID: 680-168493-9

Date Collected: 05/02/19 14:00

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/16/19 14:10	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/16/19 14:10	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 14:10	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/16/19 14:10	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/16/19 14:10	1
Toluene	0.48	U	1.0	0.48	ug/L			05/16/19 14:10	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/16/19 14:10	1
trans-1,2-Dichloroethene	0.55	J B	1.0	0.37	ug/L			05/16/19 14:10	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/16/19 14:10	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 14:10	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 14:10	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 14:10	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/16/19 14:10	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/16/19 14:10	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/16/19 14:10	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/16/19 14:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/16/19 14:10	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 14:10	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/16/19 14:10	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/16/19 14:10	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/16/19 14:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/16/19 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/16/19 14:10	1
Dibromofluoromethane (Surr)	96		80 - 122		05/16/19 14:10	1
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		05/16/19 14:10	1
Toluene-d8 (Surr)	98		80 - 120		05/16/19 14:10	1

Client Sample ID: OLF-G73 Port 1

Lab Sample ID: 680-168493-10

Date Collected: 05/01/19 14:15

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/15/19 20:28	1
Acrylonitrile	10	U	20	10	ug/L			05/15/19 20:28	1
Benzene	1.1		1.0	0.43	ug/L			05/15/19 20:28	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/15/19 20:28	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/15/19 20:28	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/15/19 20:28	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/15/19 20:28	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/15/19 20:28	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/15/19 20:28	1
Carbon disulfide	2.2	B	2.0	1.0	ug/L			05/15/19 20:28	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/15/19 20:28	1
Chlorobenzene	68		1.0	0.26	ug/L			05/15/19 20:28	1
Chloroethane	6.0		5.0	2.5	ug/L			05/15/19 20:28	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/15/19 20:28	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/15/19 20:28	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G73 Port 1

Lab Sample ID: 680-168493-10

Date Collected: 05/01/19 14:15

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/15/19 20:28	1
4-Chlorotoluene	0.49	J B	1.0	0.45	ug/L			05/15/19 20:28	1
cis-1,2-Dichloroethene	0.46	J B	1.0	0.41	ug/L			05/15/19 20:28	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/15/19 20:28	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/15/19 20:28	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/15/19 20:28	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/15/19 20:28	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/15/19 20:28	1
1,2-Dichlorobenzene	0.43	J B	1.0	0.37	ug/L			05/15/19 20:28	1
1,3-Dichlorobenzene	0.54	J B	1.0	0.43	ug/L			05/15/19 20:28	1
1,4-Dichlorobenzene	1.3	B	1.0	0.46	ug/L			05/15/19 20:28	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/15/19 20:28	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/15/19 20:28	1
1,2-Dichloroethane	1.5		1.0	0.50	ug/L			05/15/19 20:28	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/15/19 20:28	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/15/19 20:28	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/15/19 20:28	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/15/19 20:28	1
1,1-Dichloropropene	0.34	J B	1.0	0.34	ug/L			05/15/19 20:28	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/15/19 20:28	1
Hexachlorobutadiene	2.9	J B	5.0	2.5	ug/L			05/15/19 20:28	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/15/19 20:28	1
Iodomethane	5.0	U	10	5.0	ug/L			05/15/19 20:28	1
Isopropylbenzene	0.44	J B	1.0	0.35	ug/L			05/15/19 20:28	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/15/19 20:28	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/15/19 20:28	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/15/19 20:28	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/15/19 20:28	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/15/19 20:28	1
n-Butylbenzene	0.99	J B	1.0	0.47	ug/L			05/15/19 20:28	1
N-Propylbenzene	0.49	J B	1.0	0.38	ug/L			05/15/19 20:28	1
o-Xylene	0.30	J B	1.0	0.23	ug/L			05/15/19 20:28	1
p-Isopropyltoluene	0.54	J B	1.0	0.48	ug/L			05/15/19 20:28	1
sec-Butylbenzene	0.61	J B	1.0	0.42	ug/L			05/15/19 20:28	1
Styrene	0.27	U	1.0	0.27	ug/L			05/15/19 20:28	1
tert-Butylbenzene	0.62	J B	1.0	0.45	ug/L			05/15/19 20:28	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 20:28	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/15/19 20:28	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/15/19 20:28	1
Toluene	1.1		1.0	0.48	ug/L			05/15/19 20:28	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/15/19 20:28	1
trans-1,2-Dichloroethene	1.0	B	1.0	0.37	ug/L			05/15/19 20:28	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/15/19 20:28	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/15/19 20:28	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/15/19 20:28	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 20:28	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/15/19 20:28	1
Trichloroethene	2.0	B	1.0	0.48	ug/L			05/15/19 20:28	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/15/19 20:28	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G73 Port 1

Lab Sample ID: 680-168493-10

Date Collected: 05/01/19 14:15

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/15/19 20:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U *	1.0	0.36	ug/L			05/15/19 20:28	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/15/19 20:28	1
1,3,5-Trimethylbenzene	0.47	J B	1.0	0.31	ug/L			05/15/19 20:28	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/15/19 20:28	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/15/19 20:28	1
Xylenes, Total	0.30	J B	1.0	0.23	ug/L			05/15/19 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		05/15/19 20:28	1
Dibromofluoromethane (Surr)	97		80 - 122		05/15/19 20:28	1
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		05/15/19 20:28	1
Toluene-d8 (Surr)	100		80 - 120		05/15/19 20:28	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	21		1.1	0.55	ug/L			05/13/19 13:08	1
Ethylene	280		1.0	0.50	ug/L			05/13/19 13:08	1
Methane (TCD)	13000		390	39	ug/L			05/13/19 13:08	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			05/14/19 18:32	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	12000		1000	480	ug/L		05/13/19 14:05	05/14/19 16:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	8.8		1.0	0.50	mg/L			05/09/19 07:59	1
Total Organic Carbon - Quad	8.8		1.0	0.50	mg/L			05/09/19 07:59	1

Client Sample ID: OLF-G73 Port 2

Lab Sample ID: 680-168493-11

Date Collected: 05/01/19 14:30

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/15/19 20:51	1
Acrylonitrile	10	U	20	10	ug/L			05/15/19 20:51	1
Benzene	0.43	U	1.0	0.43	ug/L			05/15/19 20:51	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/15/19 20:51	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/15/19 20:51	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/15/19 20:51	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/15/19 20:51	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/15/19 20:51	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/15/19 20:51	1
Carbon disulfide	1.6	J B	2.0	1.0	ug/L			05/15/19 20:51	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/15/19 20:51	1
Chlorobenzene	8.1		1.0	0.26	ug/L			05/15/19 20:51	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G73 Port 2

Lab Sample ID: 680-168493-11

Date Collected: 05/01/19 14:30

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			05/15/19 20:51	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/15/19 20:51	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/15/19 20:51	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/15/19 20:51	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/15/19 20:51	1
cis-1,2-Dichloroethene	1.2	B	1.0	0.41	ug/L			05/15/19 20:51	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/15/19 20:51	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/15/19 20:51	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/15/19 20:51	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/15/19 20:51	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/15/19 20:51	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/15/19 20:51	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/15/19 20:51	1
1,4-Dichlorobenzene	0.59	J B	1.0	0.46	ug/L			05/15/19 20:51	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/15/19 20:51	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/15/19 20:51	1
1,2-Dichloroethane	0.58	J	1.0	0.50	ug/L			05/15/19 20:51	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/15/19 20:51	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/15/19 20:51	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/15/19 20:51	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/15/19 20:51	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/15/19 20:51	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/15/19 20:51	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/15/19 20:51	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/15/19 20:51	1
Iodomethane	5.0	U	10	5.0	ug/L			05/15/19 20:51	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/15/19 20:51	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/15/19 20:51	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/15/19 20:51	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/15/19 20:51	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/15/19 20:51	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/15/19 20:51	1
n-Butylbenzene	0.53	J B	1.0	0.47	ug/L			05/15/19 20:51	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/15/19 20:51	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/15/19 20:51	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/15/19 20:51	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/15/19 20:51	1
Styrene	0.27	U	1.0	0.27	ug/L			05/15/19 20:51	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/15/19 20:51	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 20:51	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/15/19 20:51	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/15/19 20:51	1
Toluene	0.48	U	1.0	0.48	ug/L			05/15/19 20:51	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/15/19 20:51	1
trans-1,2-Dichloroethene	2.5	B	1.0	0.37	ug/L			05/15/19 20:51	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/15/19 20:51	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/15/19 20:51	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/15/19 20:51	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 20:51	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G73 Port 2

Lab Sample ID: 680-168493-11

Date Collected: 05/01/19 14:30

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/15/19 20:51	1
Trichloroethene	3.5	B	1.0	0.48	ug/L			05/15/19 20:51	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/15/19 20:51	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/15/19 20:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U *	1.0	0.36	ug/L			05/15/19 20:51	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/15/19 20:51	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/15/19 20:51	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/15/19 20:51	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/15/19 20:51	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/15/19 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		05/15/19 20:51	1
Dibromofluoromethane (Surr)	100		80 - 122		05/15/19 20:51	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		05/15/19 20:51	1
Toluene-d8 (Surr)	99		80 - 120		05/15/19 20:51	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	10		1.1	0.55	ug/L			05/13/19 13:21	1
Ethylene	0.50	U	1.0	0.50	ug/L			05/13/19 13:21	1
Methane (TCD)	2800		390	39	ug/L			05/13/19 13:21	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3.4		1.0	0.40	mg/L			05/14/19 18:45	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	7900		1000	480	ug/L		05/13/19 14:05	05/14/19 16:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/09/19 08:17	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/09/19 08:17	1

Client Sample ID: OLF-G73 Port 3

Lab Sample ID: 680-168493-12

Date Collected: 05/01/19 14:50

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/15/19 21:14	1
Acrylonitrile	10	U	20	10	ug/L			05/15/19 21:14	1
Benzene	0.43	U	1.0	0.43	ug/L			05/15/19 21:14	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/15/19 21:14	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/15/19 21:14	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/15/19 21:14	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/15/19 21:14	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/15/19 21:14	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/15/19 21:14	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G73 Port 3

Lab Sample ID: 680-168493-12

Date Collected: 05/01/19 14:50

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.3	J B	2.0	1.0	ug/L			05/15/19 21:14	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/15/19 21:14	1
Chlorobenzene	1.9		1.0	0.26	ug/L			05/15/19 21:14	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/15/19 21:14	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/15/19 21:14	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/15/19 21:14	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/15/19 21:14	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/15/19 21:14	1
cis-1,2-Dichloroethene	28	B	1.0	0.41	ug/L			05/15/19 21:14	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/15/19 21:14	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/15/19 21:14	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/15/19 21:14	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/15/19 21:14	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/15/19 21:14	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/15/19 21:14	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/15/19 21:14	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/15/19 21:14	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/15/19 21:14	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/15/19 21:14	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/15/19 21:14	1
1,1-Dichloroethene	0.45	J B	1.0	0.36	ug/L			05/15/19 21:14	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/15/19 21:14	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/15/19 21:14	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/15/19 21:14	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/15/19 21:14	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/15/19 21:14	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/15/19 21:14	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/15/19 21:14	1
Iodomethane	5.0	U	10	5.0	ug/L			05/15/19 21:14	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/15/19 21:14	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/15/19 21:14	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/15/19 21:14	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/15/19 21:14	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/15/19 21:14	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/15/19 21:14	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/15/19 21:14	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/15/19 21:14	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/15/19 21:14	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/15/19 21:14	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/15/19 21:14	1
Styrene	0.27	U	1.0	0.27	ug/L			05/15/19 21:14	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/15/19 21:14	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 21:14	1
1,1,2,2-Tetrachloroethane	3.1		1.0	0.62	ug/L			05/15/19 21:14	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/15/19 21:14	1
Toluene	0.48	U	1.0	0.48	ug/L			05/15/19 21:14	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/15/19 21:14	1
trans-1,2-Dichloroethene	6.3	B	1.0	0.37	ug/L			05/15/19 21:14	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/15/19 21:14	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G73 Port 3

Lab Sample ID: 680-168493-12

Date Collected: 05/01/19 14:50

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/15/19 21:14	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/15/19 21:14	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 21:14	1
1,1,2-Trichloroethane	0.96	J	1.0	0.33	ug/L			05/15/19 21:14	1
Trichloroethene	61	B	1.0	0.48	ug/L			05/15/19 21:14	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/15/19 21:14	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/15/19 21:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U *	1.0	0.36	ug/L			05/15/19 21:14	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/15/19 21:14	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/15/19 21:14	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/15/19 21:14	1
Vinyl chloride	2.8		1.0	0.50	ug/L			05/15/19 21:14	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/15/19 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		05/15/19 21:14	1
Dibromofluoromethane (Surr)	98		80 - 122		05/15/19 21:14	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		05/15/19 21:14	1
Toluene-d8 (Surr)	100		80 - 120		05/15/19 21:14	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	2.3		1.1	0.55	ug/L			05/13/19 13:34	1
Ethylene	4.4		1.0	0.50	ug/L			05/13/19 13:34	1
Methane (TCD)	10000		390	39	ug/L			05/13/19 13:34	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	8.9		1.0	0.40	mg/L			05/14/19 18:58	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	42000		1000	480	ug/L		05/08/19 14:24	05/09/19 22:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.89	J	1.0	0.50	mg/L			05/09/19 08:35	1
Total Organic Carbon - Quad	0.89	J	1.0	0.50	mg/L			05/09/19 08:35	1

Client Sample ID: OLF-G73 Port 4

Lab Sample ID: 680-168493-13

Date Collected: 05/01/19 15:20

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/16/19 09:11	1
Acrylonitrile	10	U H	20	10	ug/L			05/16/19 09:11	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/16/19 09:11	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/16/19 09:11	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/16/19 09:11	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/16/19 09:11	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G73 Port 4

Lab Sample ID: 680-168493-13

Date Collected: 05/01/19 15:20

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.43	U H	1.0	0.43	ug/L			05/16/19 09:11	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			05/16/19 09:11	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/16/19 09:11	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/16/19 09:11	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/16/19 09:11	1
Chlorobenzene	0.31	J H	1.0	0.26	ug/L			05/16/19 09:11	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			05/16/19 09:11	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/16/19 09:11	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			05/16/19 09:11	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/16/19 09:11	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/16/19 09:11	1
cis-1,2-Dichloroethene	1.1	H	1.0	0.41	ug/L			05/16/19 09:11	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/16/19 09:11	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			05/16/19 09:11	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/16/19 09:11	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/16/19 09:11	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/16/19 09:11	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/16/19 09:11	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/16/19 09:11	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/16/19 09:11	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/16/19 09:11	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/16/19 09:11	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			05/16/19 09:11	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/16/19 09:11	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/16/19 09:11	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/16/19 09:11	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/16/19 09:11	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/16/19 09:11	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/16/19 09:11	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/16/19 09:11	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/16/19 09:11	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/16/19 09:11	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/16/19 09:11	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/16/19 09:11	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/16/19 09:11	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/16/19 09:11	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/16/19 09:11	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/16/19 09:11	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 09:11	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/16/19 09:11	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/16/19 09:11	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/16/19 09:11	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/16/19 09:11	1
Styrene	0.27	U H	1.0	0.27	ug/L			05/16/19 09:11	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/16/19 09:11	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 09:11	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			05/16/19 09:11	1
Tetrachloroethylene	0.74	U H	1.0	0.74	ug/L			05/16/19 09:11	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/16/19 09:11	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G73 Port 4

Lab Sample ID: 680-168493-13

Date Collected: 05/01/19 15:20

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/16/19 09:11	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			05/16/19 09:11	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/16/19 09:11	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 09:11	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 09:11	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 09:11	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			05/16/19 09:11	1
Trichloroethene	6.2	H	1.0	0.48	ug/L			05/16/19 09:11	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/16/19 09:11	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/16/19 09:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/16/19 09:11	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 09:11	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/16/19 09:11	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/16/19 09:11	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			05/16/19 09:11	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/16/19 09:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		05/16/19 09:11	1
Dibromofluoromethane (Surr)	103		80 - 122		05/16/19 09:11	1
1,2-Dichloroethane-d4 (Surr)	101		73 - 131		05/16/19 09:11	1
Toluene-d8 (Surr)	101		80 - 120		05/16/19 09:11	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.8		1.1	0.55	ug/L			05/13/19 13:47	1
Ethylene	12		1.0	0.50	ug/L			05/13/19 13:47	1
Methane (TCD)	3300		390	39	ug/L			05/13/19 13:47	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	22		1.0	0.40	mg/L			05/14/19 19:11	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	62000		1000	480	ug/L		05/08/19 14:24	05/09/19 22:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.76	J	1.0	0.50	mg/L			05/09/19 23:05	1
Total Organic Carbon - Quad	0.76	J	1.0	0.50	mg/L			05/09/19 23:05	1

Client Sample ID: OLF-G73 Port 5

Lab Sample ID: 680-168493-14

Date Collected: 05/01/19 15:45

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/16/19 08:24	1
Acrylonitrile	10	U H	20	10	ug/L			05/16/19 08:24	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/16/19 08:24	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G73 Port 5

Lab Sample ID: 680-168493-14

Date Collected: 05/01/19 15:45

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/16/19 08:24	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/16/19 08:24	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/16/19 08:24	1
Bromoform	0.43	U H	1.0	0.43	ug/L			05/16/19 08:24	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			05/16/19 08:24	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/16/19 08:24	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/16/19 08:24	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/16/19 08:24	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			05/16/19 08:24	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			05/16/19 08:24	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/16/19 08:24	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			05/16/19 08:24	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/16/19 08:24	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/16/19 08:24	1
cis-1,2-Dichloroethene	0.41	U H	1.0	0.41	ug/L			05/16/19 08:24	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/16/19 08:24	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			05/16/19 08:24	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/16/19 08:24	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/16/19 08:24	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/16/19 08:24	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/16/19 08:24	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/16/19 08:24	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/16/19 08:24	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/16/19 08:24	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/16/19 08:24	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			05/16/19 08:24	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/16/19 08:24	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/16/19 08:24	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/16/19 08:24	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/16/19 08:24	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/16/19 08:24	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/16/19 08:24	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:24	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/16/19 08:24	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/16/19 08:24	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/16/19 08:24	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/16/19 08:24	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/16/19 08:24	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/16/19 08:24	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/16/19 08:24	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:24	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 08:24	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/16/19 08:24	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/16/19 08:24	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/16/19 08:24	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/16/19 08:24	1
Styrene	0.27	U H	1.0	0.27	ug/L			05/16/19 08:24	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/16/19 08:24	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 08:24	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G73 Port 5

Lab Sample ID: 680-168493-14

Date Collected: 05/01/19 15:45

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			05/16/19 08:24	1
Tetrachloroethylene	0.74	U H	1.0	0.74	ug/L			05/16/19 08:24	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/16/19 08:24	1
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/16/19 08:24	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			05/16/19 08:24	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/16/19 08:24	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:24	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:24	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 08:24	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			05/16/19 08:24	1
Trichloroethene	0.48	U H	1.0	0.48	ug/L			05/16/19 08:24	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/16/19 08:24	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/16/19 08:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/16/19 08:24	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 08:24	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/16/19 08:24	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/16/19 08:24	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			05/16/19 08:24	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/16/19 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		05/16/19 08:24	1
Dibromofluoromethane (Surr)	101		80 - 122		05/16/19 08:24	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131		05/16/19 08:24	1
Toluene-d8 (Surr)	102		80 - 120		05/16/19 08:24	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.59	J	1.1	0.55	ug/L			05/13/19 14:46	1
Ethylene	0.71	J	1.0	0.50	ug/L			05/13/19 14:46	1
Methane	220		0.58	0.29	ug/L			05/13/19 14:46	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	15		1.0	0.40	mg/L			05/15/19 22:11	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3500		1000	480	ug/L		05/13/19 14:05	05/14/19 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/09/19 23:55	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/09/19 23:55	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 1

Lab Sample ID: 680-168493-15

Date Collected: 05/01/19 11:25

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/16/19 08:47	1
Acrylonitrile	10	U H	20	10	ug/L			05/16/19 08:47	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/16/19 08:47	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/16/19 08:47	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/16/19 08:47	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/16/19 08:47	1
Bromoform	0.43	U H	1.0	0.43	ug/L			05/16/19 08:47	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			05/16/19 08:47	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/16/19 08:47	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/16/19 08:47	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/16/19 08:47	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			05/16/19 08:47	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			05/16/19 08:47	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/16/19 08:47	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			05/16/19 08:47	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/16/19 08:47	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/16/19 08:47	1
cis-1,2-Dichloroethene	1.8	H	1.0	0.41	ug/L			05/16/19 08:47	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/16/19 08:47	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			05/16/19 08:47	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/16/19 08:47	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/16/19 08:47	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/16/19 08:47	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/16/19 08:47	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/16/19 08:47	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/16/19 08:47	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/16/19 08:47	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/16/19 08:47	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			05/16/19 08:47	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/16/19 08:47	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/16/19 08:47	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/16/19 08:47	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/16/19 08:47	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/16/19 08:47	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/16/19 08:47	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:47	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/16/19 08:47	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/16/19 08:47	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/16/19 08:47	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/16/19 08:47	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/16/19 08:47	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/16/19 08:47	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/16/19 08:47	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:47	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 08:47	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/16/19 08:47	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/16/19 08:47	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/16/19 08:47	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/16/19 08:47	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 1

Lab Sample ID: 680-168493-15

Date Collected: 05/01/19 11:25

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U H	1.0	0.27	ug/L			05/16/19 08:47	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/16/19 08:47	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 08:47	1
1,1,2,2-Tetrachloroethane	3.3	H	1.0	0.62	ug/L			05/16/19 08:47	1
Tetrachloroethylene	0.74	U H	1.0	0.74	ug/L			05/16/19 08:47	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/16/19 08:47	1
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/16/19 08:47	1
trans-1,2-Dichloroethene	0.48	J H	1.0	0.37	ug/L			05/16/19 08:47	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/16/19 08:47	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:47	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:47	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 08:47	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			05/16/19 08:47	1
Trichloroethene	2.6	H	1.0	0.48	ug/L			05/16/19 08:47	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/16/19 08:47	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/16/19 08:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/16/19 08:47	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 08:47	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/16/19 08:47	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/16/19 08:47	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			05/16/19 08:47	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/16/19 08:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		05/16/19 08:47	1
Dibromofluoromethane (Surr)	100		80 - 122		05/16/19 08:47	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		05/16/19 08:47	1
Toluene-d8 (Surr)	99		80 - 120		05/16/19 08:47	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.52	J	1.0	0.40	mg/L			05/15/19 22:49	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	1100		1000	480	ug/L		05/08/19 14:24	05/09/19 22:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/10/19 00:12	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/10/19 00:12	1

Client Sample ID: OLF-G74 Port 2

Lab Sample ID: 680-168493-16

Date Collected: 05/01/19 11:40

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/16/19 07:38	1
Acrylonitrile	10	U H	20	10	ug/L			05/16/19 07:38	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/16/19 07:38	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 2

Lab Sample ID: 680-168493-16

Date Collected: 05/01/19 11:40

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/16/19 07:38	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/16/19 07:38	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/16/19 07:38	1
Bromoform	0.43	U H	1.0	0.43	ug/L			05/16/19 07:38	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			05/16/19 07:38	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/16/19 07:38	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/16/19 07:38	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/16/19 07:38	1
Chlorobenzene	4.3	H	1.0	0.26	ug/L			05/16/19 07:38	1
Chloroethane	2.8	J H	5.0	2.5	ug/L			05/16/19 07:38	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/16/19 07:38	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			05/16/19 07:38	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/16/19 07:38	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/16/19 07:38	1
cis-1,2-Dichloroethene	100	H	1.0	0.41	ug/L			05/16/19 07:38	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/16/19 07:38	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			05/16/19 07:38	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/16/19 07:38	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/16/19 07:38	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/16/19 07:38	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/16/19 07:38	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/16/19 07:38	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/16/19 07:38	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/16/19 07:38	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/16/19 07:38	1
1,2-Dichloroethane	0.53	J H	1.0	0.50	ug/L			05/16/19 07:38	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/16/19 07:38	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/16/19 07:38	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/16/19 07:38	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/16/19 07:38	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/16/19 07:38	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/16/19 07:38	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/16/19 07:38	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/16/19 07:38	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/16/19 07:38	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/16/19 07:38	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/16/19 07:38	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/16/19 07:38	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/16/19 07:38	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/16/19 07:38	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/16/19 07:38	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 07:38	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/16/19 07:38	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/16/19 07:38	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/16/19 07:38	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/16/19 07:38	1
Styrene	0.27	U H	1.0	0.27	ug/L			05/16/19 07:38	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/16/19 07:38	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 07:38	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 2

Lab Sample ID: 680-168493-16

Date Collected: 05/01/19 11:40

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	39	H	1.0	0.62	ug/L			05/16/19 07:38	1
Tetrachloroethylene	0.74	U H	1.0	0.74	ug/L			05/16/19 07:38	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/16/19 07:38	1
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/16/19 07:38	1
trans-1,2-Dichloroethene	47	H	1.0	0.37	ug/L			05/16/19 07:38	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/16/19 07:38	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 07:38	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 07:38	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 07:38	1
1,1,2-Trichloroethane	2.3	H	1.0	0.33	ug/L			05/16/19 07:38	1
Trichloroethene	76	H	1.0	0.48	ug/L			05/16/19 07:38	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/16/19 07:38	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/16/19 07:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/16/19 07:38	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 07:38	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/16/19 07:38	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/16/19 07:38	1
Vinyl chloride	14	H	1.0	0.50	ug/L			05/16/19 07:38	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/16/19 07:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		05/16/19 07:38	1
Dibromofluoromethane (Surr)	102		80 - 122		05/16/19 07:38	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131		05/16/19 07:38	1
Toluene-d8 (Surr)	101		80 - 120		05/16/19 07:38	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.62	J	1.0	0.40	mg/L			05/15/19 23:14	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	7800		1000	480	ug/L		05/08/19 14:24	05/09/19 22:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.54	J	1.0	0.50	mg/L			05/10/19 00:30	1
Total Organic Carbon - Quad	0.54	J	1.0	0.50	mg/L			05/10/19 00:30	1

Client Sample ID: OLF-G74 Port 3

Lab Sample ID: 680-168493-17

Date Collected: 05/01/19 11:55

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/16/19 08:01	1
Acrylonitrile	10	U H	20	10	ug/L			05/16/19 08:01	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/16/19 08:01	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/16/19 08:01	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/16/19 08:01	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/16/19 08:01	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 3

Lab Sample ID: 680-168493-17

Date Collected: 05/01/19 11:55

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.43	U H	1.0	0.43	ug/L			05/16/19 08:01	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			05/16/19 08:01	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/16/19 08:01	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/16/19 08:01	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/16/19 08:01	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			05/16/19 08:01	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			05/16/19 08:01	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/16/19 08:01	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			05/16/19 08:01	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/16/19 08:01	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/16/19 08:01	1
cis-1,2-Dichloroethene	3.7	H	1.0	0.41	ug/L			05/16/19 08:01	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/16/19 08:01	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			05/16/19 08:01	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/16/19 08:01	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/16/19 08:01	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/16/19 08:01	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/16/19 08:01	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/16/19 08:01	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/16/19 08:01	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/16/19 08:01	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/16/19 08:01	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			05/16/19 08:01	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/16/19 08:01	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/16/19 08:01	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/16/19 08:01	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/16/19 08:01	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/16/19 08:01	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/16/19 08:01	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:01	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/16/19 08:01	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/16/19 08:01	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/16/19 08:01	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/16/19 08:01	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/16/19 08:01	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/16/19 08:01	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/16/19 08:01	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:01	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 08:01	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/16/19 08:01	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/16/19 08:01	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/16/19 08:01	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/16/19 08:01	1
Styrene	0.27	U H	1.0	0.27	ug/L			05/16/19 08:01	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/16/19 08:01	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 08:01	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			05/16/19 08:01	1
Tetrachloroethylene	0.74	U H	1.0	0.74	ug/L			05/16/19 08:01	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/16/19 08:01	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 3

Lab Sample ID: 680-168493-17

Date Collected: 05/01/19 11:55

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/16/19 08:01	1
trans-1,2-Dichloroethene	0.69	J H	1.0	0.37	ug/L			05/16/19 08:01	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/16/19 08:01	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:01	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 08:01	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 08:01	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			05/16/19 08:01	1
Trichloroethene	35	H	1.0	0.48	ug/L			05/16/19 08:01	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/16/19 08:01	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/16/19 08:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/16/19 08:01	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 08:01	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/16/19 08:01	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/16/19 08:01	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			05/16/19 08:01	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/16/19 08:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/16/19 08:01	1
Dibromofluoromethane (Surr)	101		80 - 122		05/16/19 08:01	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/16/19 08:01	1
Toluene-d8 (Surr)	101		80 - 120		05/16/19 08:01	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	12		1.0	0.40	mg/L			05/15/19 23:27	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3300		1000	480	ug/L		05/13/19 14:05	05/14/19 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/10/19 00:47	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/10/19 00:47	1

Client Sample ID: OLF-G74 Port 4

Lab Sample ID: 680-168493-18

Date Collected: 05/01/19 12:15

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/16/19 06:51	1
Acrylonitrile	10	U H	20	10	ug/L			05/16/19 06:51	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/16/19 06:51	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/16/19 06:51	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/16/19 06:51	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/16/19 06:51	1
Bromoform	0.43	U H	1.0	0.43	ug/L			05/16/19 06:51	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			05/16/19 06:51	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/16/19 06:51	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 4

Lab Sample ID: 680-168493-18

Date Collected: 05/01/19 12:15

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/16/19 06:51	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/16/19 06:51	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			05/16/19 06:51	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			05/16/19 06:51	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/16/19 06:51	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			05/16/19 06:51	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/16/19 06:51	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/16/19 06:51	1
cis-1,2-Dichloroethene	1.2	H	1.0	0.41	ug/L			05/16/19 06:51	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/16/19 06:51	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			05/16/19 06:51	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/16/19 06:51	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/16/19 06:51	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/16/19 06:51	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/16/19 06:51	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/16/19 06:51	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/16/19 06:51	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/16/19 06:51	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/16/19 06:51	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			05/16/19 06:51	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/16/19 06:51	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/16/19 06:51	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/16/19 06:51	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/16/19 06:51	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/16/19 06:51	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/16/19 06:51	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/16/19 06:51	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/16/19 06:51	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/16/19 06:51	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/16/19 06:51	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/16/19 06:51	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/16/19 06:51	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/16/19 06:51	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/16/19 06:51	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/16/19 06:51	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 06:51	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/16/19 06:51	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/16/19 06:51	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/16/19 06:51	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/16/19 06:51	1
Styrene	0.27	U H	1.0	0.27	ug/L			05/16/19 06:51	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/16/19 06:51	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 06:51	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			05/16/19 06:51	1
Tetrachloroethylene	0.74	U H	1.0	0.74	ug/L			05/16/19 06:51	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/16/19 06:51	1
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/16/19 06:51	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			05/16/19 06:51	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/16/19 06:51	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 4

Lab Sample ID: 680-168493-18

Date Collected: 05/01/19 12:15

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 06:51	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 06:51	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 06:51	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			05/16/19 06:51	1
Trichloroethene	9.7	H	1.0	0.48	ug/L			05/16/19 06:51	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/16/19 06:51	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/16/19 06:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/16/19 06:51	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 06:51	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/16/19 06:51	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/16/19 06:51	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			05/16/19 06:51	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/16/19 06:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		05/16/19 06:51	1
Dibromofluoromethane (Surr)	104		80 - 122		05/16/19 06:51	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131		05/16/19 06:51	1
Toluene-d8 (Surr)	101		80 - 120		05/16/19 06:51	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	14		1.0	0.40	mg/L			05/15/19 23:40	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	4500		1000	480	ug/L		05/13/19 14:05	05/14/19 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.60	J	1.0	0.50	mg/L			05/10/19 01:04	1
Total Organic Carbon - Quad	0.60	J	1.0	0.50	mg/L			05/10/19 01:04	1

Client Sample ID: OLF-G74 Port 5

Lab Sample ID: 680-168493-19

Date Collected: 05/01/19 12:40

Matrix: Water

Date Received: 05/03/19 09:03

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/16/19 07:14	1
Acrylonitrile	10	U H	20	10	ug/L			05/16/19 07:14	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/16/19 07:14	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/16/19 07:14	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/16/19 07:14	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/16/19 07:14	1
Bromoform	0.43	U H	1.0	0.43	ug/L			05/16/19 07:14	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			05/16/19 07:14	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/16/19 07:14	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/16/19 07:14	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/16/19 07:14	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			05/16/19 07:14	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 5

Lab Sample ID: 680-168493-19

Date Collected: 05/01/19 12:40

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U H	5.0	2.5	ug/L			05/16/19 07:14	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/16/19 07:14	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			05/16/19 07:14	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/16/19 07:14	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/16/19 07:14	1
cis-1,2-Dichloroethene	0.78	J H	1.0	0.41	ug/L			05/16/19 07:14	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/16/19 07:14	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			05/16/19 07:14	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/16/19 07:14	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/16/19 07:14	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/16/19 07:14	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/16/19 07:14	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/16/19 07:14	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/16/19 07:14	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/16/19 07:14	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/16/19 07:14	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			05/16/19 07:14	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/16/19 07:14	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/16/19 07:14	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/16/19 07:14	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/16/19 07:14	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/16/19 07:14	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/16/19 07:14	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/16/19 07:14	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/16/19 07:14	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/16/19 07:14	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/16/19 07:14	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/16/19 07:14	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/16/19 07:14	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/16/19 07:14	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/16/19 07:14	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/16/19 07:14	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 07:14	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/16/19 07:14	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/16/19 07:14	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/16/19 07:14	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/16/19 07:14	1
Styrene	0.27	U H	1.0	0.27	ug/L			05/16/19 07:14	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/16/19 07:14	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 07:14	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			05/16/19 07:14	1
Tetrachloroethylene	0.74	U H	1.0	0.74	ug/L			05/16/19 07:14	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/16/19 07:14	1
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/16/19 07:14	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			05/16/19 07:14	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/16/19 07:14	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 07:14	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/16/19 07:14	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/16/19 07:14	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 5

Lab Sample ID: 680-168493-19

Date Collected: 05/01/19 12:40

Matrix: Water

Date Received: 05/03/19 09:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			05/16/19 07:14	1
Trichloroethene	2.4	H	1.0	0.48	ug/L			05/16/19 07:14	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/16/19 07:14	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/16/19 07:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/16/19 07:14	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/16/19 07:14	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/16/19 07:14	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/16/19 07:14	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			05/16/19 07:14	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/16/19 07:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/16/19 07:14	1
Dibromofluoromethane (Surr)	102		80 - 122		05/16/19 07:14	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131		05/16/19 07:14	1
Toluene-d8 (Surr)	101		80 - 120		05/16/19 07:14	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	14		1.0	0.40	mg/L			05/15/19 23:52	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	5000		1000	480	ug/L		05/08/19 14:24	05/09/19 22:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.70	J	1.0	0.50	mg/L			05/10/19 01:21	1
Total Organic Carbon - Quad	0.70	J	1.0	0.50	mg/L			05/10/19 01:21	1

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-570450/20

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/15/19 19:41	1
Acrylonitrile	10	U	20	10	ug/L			05/15/19 19:41	1
Benzene	0.43	U	1.0	0.43	ug/L			05/15/19 19:41	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/15/19 19:41	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/15/19 19:41	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/15/19 19:41	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/15/19 19:41	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/15/19 19:41	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/15/19 19:41	1
Carbon disulfide	3.13		2.0	1.0	ug/L			05/15/19 19:41	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/15/19 19:41	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/15/19 19:41	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/15/19 19:41	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/15/19 19:41	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/15/19 19:41	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/15/19 19:41	1
4-Chlorotoluene	0.683	J	1.0	0.45	ug/L			05/15/19 19:41	1
cis-1,2-Dichloroethene	0.439	J	1.0	0.41	ug/L			05/15/19 19:41	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/15/19 19:41	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/15/19 19:41	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/15/19 19:41	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/15/19 19:41	1
Dibromomethane	0.366	J	1.0	0.35	ug/L			05/15/19 19:41	1
1,2-Dichlorobenzene	0.699	J	1.0	0.37	ug/L			05/15/19 19:41	1
1,3-Dichlorobenzene	0.886	J	1.0	0.43	ug/L			05/15/19 19:41	1
1,4-Dichlorobenzene	1.01		1.0	0.46	ug/L			05/15/19 19:41	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/15/19 19:41	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/15/19 19:41	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/15/19 19:41	1
1,1-Dichloroethene	0.631	J	1.0	0.36	ug/L			05/15/19 19:41	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/15/19 19:41	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/15/19 19:41	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/15/19 19:41	1
1,1-Dichloropropene	0.577	J	1.0	0.34	ug/L			05/15/19 19:41	1
Ethylbenzene	0.366	J	1.0	0.33	ug/L			05/15/19 19:41	1
Hexachlorobutadiene	4.12	J	5.0	2.5	ug/L			05/15/19 19:41	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/15/19 19:41	1
Iodomethane	5.0	U	10	5.0	ug/L			05/15/19 19:41	1
Isopropylbenzene	0.702	J	1.0	0.35	ug/L			05/15/19 19:41	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/15/19 19:41	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/15/19 19:41	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/15/19 19:41	1
m-Xylene & p-Xylene	0.389	J	1.0	0.35	ug/L			05/15/19 19:41	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/15/19 19:41	1
n-Butylbenzene	1.94		1.0	0.47	ug/L			05/15/19 19:41	1
N-Propylbenzene	0.963	J	1.0	0.38	ug/L			05/15/19 19:41	1
o-Xylene	0.309	J	1.0	0.23	ug/L			05/15/19 19:41	1
p-Isopropyltoluene	1.20		1.0	0.48	ug/L			05/15/19 19:41	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: MB 680-570450/20

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.12		1.0	0.42	ug/L			05/15/19 19:41	1
Styrene	0.348	J	1.0	0.27	ug/L			05/15/19 19:41	1
tert-Butylbenzene	0.946	J	1.0	0.45	ug/L			05/15/19 19:41	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 19:41	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/15/19 19:41	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/15/19 19:41	1
Toluene	0.48	U	1.0	0.48	ug/L			05/15/19 19:41	1
trans-1,4-Dichloro-2-butene	0.639	J	2.0	0.51	ug/L			05/15/19 19:41	1
trans-1,2-Dichloroethene	1.32		1.0	0.37	ug/L			05/15/19 19:41	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/15/19 19:41	1
1,2,3-Trichlorobenzene	2.88	J	5.0	2.5	ug/L			05/15/19 19:41	1
1,2,4-Trichlorobenzene	2.65	J	5.0	2.5	ug/L			05/15/19 19:41	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/15/19 19:41	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/15/19 19:41	1
Trichloroethene	0.652	J	1.0	0.48	ug/L			05/15/19 19:41	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/15/19 19:41	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/15/19 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/15/19 19:41	1
1,2,4-Trimethylbenzene	0.683	J	1.0	0.47	ug/L			05/15/19 19:41	1
1,3,5-Trimethylbenzene	0.787	J	1.0	0.31	ug/L			05/15/19 19:41	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/15/19 19:41	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/15/19 19:41	1
Xylenes, Total	0.698	J	1.0	0.23	ug/L			05/15/19 19:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		05/15/19 19:41	1
Dibromofluoromethane (Surr)	98		80 - 122		05/15/19 19:41	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		05/15/19 19:41	1
Toluene-d8 (Surr)	98		80 - 120		05/15/19 19:41	1

Lab Sample ID: LCS 680-570450/1016

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	224		ug/L		90	70 - 135
Acrylonitrile	500	519		ug/L		104	80 - 123
Benzene	50.0	52.0		ug/L		104	80 - 120
Bromobenzene	50.0	50.8		ug/L		102	80 - 121
Bromochloromethane	50.0	52.3		ug/L		105	80 - 120
Bromodichloromethane	50.0	50.3		ug/L		101	80 - 120
Bromoform	50.0	53.0		ug/L		106	74 - 126
Bromomethane	50.0	61.3		ug/L		123	62 - 130
2-Butanone (MEK)	250	266		ug/L		107	80 - 131
Carbon disulfide	50.0	48.6		ug/L		97	80 - 120
Carbon tetrachloride	50.0	52.2		ug/L		104	76 - 123
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120
Chloroethane	50.0	56.9		ug/L		114	66 - 135

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCS 680-570450/1016

Matrix: Water

Analysis Batch: 570450

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	49.6		ug/L		99	80 - 120
Chloromethane	50.0	54.4		ug/L		109	69 - 131
2-Chlorotoluene	50.0	48.6		ug/L		97	80 - 120
4-Chlorotoluene	50.0	48.5		ug/L		97	80 - 120
cis-1,2-Dichloroethene	50.0	52.9		ug/L		106	80 - 120
cis-1,3-Dichloropropene	50.0	52.1		ug/L		104	80 - 120
Dibromochloromethane	50.0	53.4		ug/L		107	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/L		98	71 - 134
1,2-Dibromoethane	50.0	52.7		ug/L		105	80 - 120
Dibromomethane	50.0	50.3		ug/L		101	80 - 120
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	80 - 120
1,3-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120
Dichlorodifluoromethane	50.0	45.2		ug/L		90	47 - 155
1,1-Dichloroethane	50.0	53.1		ug/L		106	80 - 120
1,2-Dichloroethane	50.0	53.4		ug/L		107	80 - 120
1,1-Dichloroethene	50.0	49.2		ug/L		98	76 - 120
1,2-Dichloropropane	50.0	53.9		ug/L		108	80 - 120
1,3-Dichloropropane	50.0	52.8		ug/L		106	80 - 120
2,2-Dichloropropane	50.0	49.0		ug/L		98	76 - 126
1,1-Dichloropropene	50.0	50.1		ug/L		100	80 - 120
Ethylbenzene	50.0	49.1		ug/L		98	80 - 120
Hexachlorobutadiene	50.0	52.5		ug/L		105	60 - 140
2-Hexanone	250	264		ug/L		106	74 - 127
Iodomethane	50.0	49.3		ug/L		99	52 - 142
Isopropylbenzene	50.0	49.4		ug/L		99	80 - 120
Methylene Chloride	50.0	48.8		ug/L		98	80 - 120
4-Methyl-2-pentanone	250	268		ug/L		107	76 - 124
Methyl tert-butyl ether	50.0	53.3		ug/L		107	80 - 120
m-Xylene & p-Xylene	50.0	49.5		ug/L		99	80 - 120
Naphthalene	50.0	49.0		ug/L		98	59 - 140
n-Butylbenzene	50.0	51.6		ug/L		103	80 - 120
N-Propylbenzene	50.0	47.2		ug/L		94	80 - 120
o-Xylene	50.0	49.7		ug/L		99	80 - 120
p-Isopropyltoluene	50.0	50.9		ug/L		102	80 - 120
sec-Butylbenzene	50.0	51.2		ug/L		102	80 - 120
Styrene	50.0	51.1		ug/L		102	80 - 120
tert-Butylbenzene	50.0	48.7		ug/L		97	80 - 121
1,1,1,2-Tetrachloroethane	50.0	51.0		ug/L		102	80 - 121
1,1,1,2,2-Tetrachloroethane	50.0	48.5		ug/L		97	80 - 120
Tetrachloroethylene	50.0	52.3		ug/L		105	80 - 121
Toluene	50.0	52.2		ug/L		104	80 - 113
trans-1,4-Dichloro-2-butene	50.0	48.9		ug/L		98	68 - 125
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	80 - 120
trans-1,3-Dichloropropene	50.0	48.6		ug/L		97	80 - 120
1,2,3-Trichlorobenzene	50.0	50.8		ug/L		102	61 - 141
1,2,4-Trichlorobenzene	50.0	49.6		ug/L		99	68 - 128
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCS 680-570450/1016

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	52.2		ug/L		104	80 - 120
Trichlorofluoromethane	50.0	52.2		ug/L		104	60 - 141
1,2,3-Trichloropropane	50.0	51.1		ug/L		102	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/L		100	79 - 124
1,2,4-Trimethylbenzene	50.0	48.7		ug/L		97	80 - 120
1,3,5-Trimethylbenzene	50.0	48.2		ug/L		96	80 - 120
Vinyl acetate	100	125		ug/L		125	67 - 135
Vinyl chloride	50.0	52.6		ug/L		105	71 - 128
Xylenes, Total	100	99.2		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	102		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 680-570450/17

Matrix: Water

Analysis Batch: 570450

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	268		ug/L		107	70 - 135	18	30
Acrylonitrile	500	572		ug/L		114	80 - 123	10	20
Benzene	50.0	53.2		ug/L		106	80 - 120	2	20
Bromobenzene	50.0	50.4		ug/L		101	80 - 121	1	20
Bromochloromethane	50.0	52.7		ug/L		105	80 - 120	1	20
Bromodichloromethane	50.0	49.5		ug/L		99	80 - 120	2	20
Bromoform	50.0	53.0		ug/L		106	74 - 126	0	20
Bromomethane	50.0	52.9		ug/L		106	62 - 130	15	20
2-Butanone (MEK)	250	297		ug/L		119	80 - 131	11	20
Carbon disulfide	50.0	53.4		ug/L		107	80 - 120	9	20
Carbon tetrachloride	50.0	55.2		ug/L		110	76 - 123	6	20
Chlorobenzene	50.0	51.8		ug/L		104	80 - 120	3	20
Chloroethane	50.0	56.7		ug/L		113	66 - 135	0	20
Chloroform	50.0	50.3		ug/L		101	80 - 120	1	20
Chloromethane	50.0	58.4		ug/L		117	69 - 131	7	30
2-Chlorotoluene	50.0	49.3		ug/L		99	80 - 120	2	20
4-Chlorotoluene	50.0	48.2		ug/L		96	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	54.5		ug/L		109	80 - 120	3	20
cis-1,3-Dichloropropene	50.0	52.4		ug/L		105	80 - 120	1	20
Dibromochloromethane	50.0	52.5		ug/L		105	80 - 121	2	20
1,2-Dibromo-3-Chloropropane	50.0	59.2		ug/L		118	71 - 134	19	20
1,2-Dibromoethane	50.0	51.8		ug/L		104	80 - 120	2	20
Dibromomethane	50.0	50.9		ug/L		102	80 - 120	1	20
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120	6	20
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	6	20
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	80 - 120	5	20
Dichlorodifluoromethane	50.0	55.0		ug/L		110	47 - 155	20	40

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCSD 680-570450/17

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	54.6		ug/L		109	80 - 120	3	20
1,2-Dichloroethane	50.0	53.6		ug/L		107	80 - 120	0	50
1,1-Dichloroethene	50.0	51.7		ug/L		103	76 - 120	5	20
1,2-Dichloropropane	50.0	54.1		ug/L		108	80 - 120	0	20
1,3-Dichloropropane	50.0	52.5		ug/L		105	80 - 120	1	20
2,2-Dichloropropane	50.0	50.3		ug/L		101	76 - 126	3	20
1,1-Dichloropropene	50.0	53.1		ug/L		106	80 - 120	6	20
Ethylbenzene	50.0	50.3		ug/L		101	80 - 120	2	20
Hexachlorobutadiene	50.0	50.3		ug/L		101	60 - 140	4	20
2-Hexanone	250	285		ug/L		114	74 - 127	8	20
Iodomethane	50.0	53.3		ug/L		107	52 - 142	8	30
Isopropylbenzene	50.0	51.1		ug/L		102	80 - 120	3	20
Methylene Chloride	50.0	50.0		ug/L		100	80 - 120	2	20
4-Methyl-2-pentanone	250	281		ug/L		112	76 - 124	5	20
Methyl tert-butyl ether	50.0	52.7		ug/L		105	80 - 120	1	20
m-Xylene & p-Xylene	50.0	50.6		ug/L		101	80 - 120	2	20
Naphthalene	50.0	55.2		ug/L		110	59 - 140	12	20
n-Butylbenzene	50.0	53.7		ug/L		107	80 - 120	4	20
N-Propylbenzene	50.0	48.2		ug/L		96	80 - 120	2	20
o-Xylene	50.0	50.5		ug/L		101	80 - 120	2	30
p-Isopropyltoluene	50.0	54.7		ug/L		109	80 - 120	7	20
sec-Butylbenzene	50.0	51.6		ug/L		103	80 - 120	1	20
Styrene	50.0	51.9		ug/L		104	80 - 120	1	20
tert-Butylbenzene	50.0	49.1		ug/L		98	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	51.9		ug/L		104	80 - 121	2	20
1,1,2,2-Tetrachloroethane	50.0	54.3		ug/L		109	80 - 120	11	20
Tetrachloroethylene	50.0	55.0		ug/L		110	80 - 121	5	20
Toluene	50.0	52.8		ug/L		106	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	51.9		ug/L		104	68 - 125	6	30
trans-1,2-Dichloroethene	50.0	53.4		ug/L		107	80 - 120	9	20
trans-1,3-Dichloropropene	50.0	48.9		ug/L		98	80 - 120	1	30
1,2,3-Trichlorobenzene	50.0	53.2		ug/L		106	61 - 141	5	20
1,2,4-Trichlorobenzene	50.0	50.3		ug/L		101	68 - 128	1	20
1,1,1-Trichloroethane	50.0	53.7		ug/L		107	80 - 120	5	20
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	80 - 120	0	20
Trichloroethene	50.0	54.3		ug/L		109	80 - 120	4	20
Trichlorofluoromethane	50.0	60.7		ug/L		121	60 - 141	15	20
1,2,3-Trichloropropane	50.0	53.9		ug/L		108	80 - 123	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	64.6 *		ug/L		129	79 - 124	26	20
1,2,4-Trimethylbenzene	50.0	49.1		ug/L		98	80 - 120	1	20
1,3,5-Trimethylbenzene	50.0	48.7		ug/L		97	80 - 120	1	20
Vinyl acetate	100	125		ug/L		125	67 - 135	0	20
Vinyl chloride	50.0	58.6		ug/L		117	71 - 128	11	20
Xylenes, Total	100	101		ug/L		101	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCSD 680-570450/17

Matrix: Water

Analysis Batch: 570450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	102		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 680-570474/10

Matrix: Water

Analysis Batch: 570474

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/16/19 01:26	1
Acrylonitrile	10	U	20	10	ug/L			05/16/19 01:26	1
Benzene	0.43	U	1.0	0.43	ug/L			05/16/19 01:26	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/16/19 01:26	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/16/19 01:26	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/16/19 01:26	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/16/19 01:26	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/16/19 01:26	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/16/19 01:26	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/16/19 01:26	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/16/19 01:26	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/16/19 01:26	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/16/19 01:26	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/16/19 01:26	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/16/19 01:26	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/16/19 01:26	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/16/19 01:26	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/16/19 01:26	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/16/19 01:26	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/16/19 01:26	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/16/19 01:26	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/16/19 01:26	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/16/19 01:26	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/16/19 01:26	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/16/19 01:26	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/16/19 01:26	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/16/19 01:26	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/16/19 01:26	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/16/19 01:26	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/16/19 01:26	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/16/19 01:26	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/16/19 01:26	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/16/19 01:26	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/16/19 01:26	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/16/19 01:26	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/16/19 01:26	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/16/19 01:26	1
Iodomethane	5.0	U	10	5.0	ug/L			05/16/19 01:26	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/16/19 01:26	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: MB 680-570474/10

Matrix: Water

Analysis Batch: 570474

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/16/19 01:26	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/16/19 01:26	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/16/19 01:26	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/16/19 01:26	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/16/19 01:26	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 01:26	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/16/19 01:26	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/16/19 01:26	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/16/19 01:26	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/16/19 01:26	1
Styrene	0.27	U	1.0	0.27	ug/L			05/16/19 01:26	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/16/19 01:26	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 01:26	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/16/19 01:26	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/16/19 01:26	1
Toluene	0.48	U	1.0	0.48	ug/L			05/16/19 01:26	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/16/19 01:26	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/16/19 01:26	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/16/19 01:26	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 01:26	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 01:26	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 01:26	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/16/19 01:26	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/16/19 01:26	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/16/19 01:26	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/16/19 01:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/16/19 01:26	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 01:26	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/16/19 01:26	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/16/19 01:26	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/16/19 01:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/16/19 01:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		05/16/19 01:26	1
Dibromofluoromethane (Surr)	101		80 - 122		05/16/19 01:26	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		05/16/19 01:26	1
Toluene-d8 (Surr)	102		80 - 120		05/16/19 01:26	1

Lab Sample ID: LCS 680-570474/5

Matrix: Water

Analysis Batch: 570474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	271		ug/L		108	70 - 135
Acrylonitrile	500	516		ug/L		103	80 - 123
Benzene	50.0	51.9		ug/L		104	80 - 120
Bromobenzene	50.0	50.6		ug/L		101	80 - 121

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCS 680-570474/5

Matrix: Water

Analysis Batch: 570474

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	53.3		ug/L		107	80 - 120
Bromodichloromethane	50.0	53.4		ug/L		107	80 - 120
Bromoform	50.0	54.5		ug/L		109	74 - 126
Bromomethane	50.0	51.3		ug/L		103	62 - 130
2-Butanone (MEK)	250	266		ug/L		106	80 - 131
Carbon disulfide	50.0	49.7		ug/L		99	80 - 120
Carbon tetrachloride	50.0	52.9		ug/L		106	76 - 123
Chlorobenzene	50.0	50.5		ug/L		101	80 - 120
Chloroethane	50.0	49.4		ug/L		99	66 - 135
Chloroform	50.0	53.6		ug/L		107	80 - 120
Chloromethane	50.0	49.7		ug/L		99	69 - 131
2-Chlorotoluene	50.0	50.8		ug/L		102	80 - 120
4-Chlorotoluene	50.0	50.0		ug/L		100	80 - 120
cis-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	53.4		ug/L		107	80 - 120
Dibromochloromethane	50.0	54.7		ug/L		109	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	53.8		ug/L		108	71 - 134
1,2-Dibromoethane	50.0	54.0		ug/L		108	80 - 120
Dibromomethane	50.0	53.6		ug/L		107	80 - 120
1,2-Dichlorobenzene	50.0	52.3		ug/L		105	80 - 120
1,3-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120
Dichlorodifluoromethane	50.0	55.5		ug/L		111	47 - 155
1,1-Dichloroethane	50.0	51.8		ug/L		104	80 - 120
1,2-Dichloroethane	50.0	53.6		ug/L		107	80 - 120
1,1-Dichloroethene	50.0	50.6		ug/L		101	76 - 120
1,2-Dichloropropane	50.0	50.5		ug/L		101	80 - 120
1,3-Dichloropropane	50.0	53.3		ug/L		107	80 - 120
2,2-Dichloropropane	50.0	40.6		ug/L		81	76 - 126
1,1-Dichloropropene	50.0	51.5		ug/L		103	80 - 120
Ethylbenzene	50.0	50.1		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	46.2		ug/L		92	60 - 140
2-Hexanone	250	265		ug/L		106	74 - 127
Iodomethane	50.0	49.0		ug/L		98	52 - 142
Isopropylbenzene	50.0	50.4		ug/L		101	80 - 120
Methylene Chloride	50.0	49.5		ug/L		99	80 - 120
4-Methyl-2-pentanone	250	268		ug/L		107	76 - 124
Methyl tert-butyl ether	50.0	52.7		ug/L		105	80 - 120
m-Xylene & p-Xylene	50.0	50.7		ug/L		101	80 - 120
Naphthalene	50.0	53.3		ug/L		107	59 - 140
n-Butylbenzene	50.0	49.0		ug/L		98	80 - 120
N-Propylbenzene	50.0	50.3		ug/L		101	80 - 120
o-Xylene	50.0	50.3		ug/L		101	80 - 120
p-Isopropyltoluene	50.0	49.8		ug/L		100	80 - 120
sec-Butylbenzene	50.0	50.2		ug/L		100	80 - 120
Styrene	50.0	51.4		ug/L		103	80 - 120
tert-Butylbenzene	50.0	50.8		ug/L		102	80 - 121
1,1,1,2-Tetrachloroethane	50.0	54.8		ug/L		110	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCS 680-570474/5

Matrix: Water

Analysis Batch: 570474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethylene	50.0	51.3		ug/L		103	80 - 121
Toluene	50.0	52.0		ug/L		104	80 - 113
trans-1,4-Dichloro-2-butene	50.0	50.6		ug/L		101	68 - 125
trans-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120
trans-1,3-Dichloropropene	50.0	56.4		ug/L		113	80 - 120
1,2,3-Trichlorobenzene	50.0	50.5		ug/L		101	61 - 141
1,2,4-Trichlorobenzene	50.0	48.4		ug/L		97	68 - 128
1,1,1-Trichloroethane	50.0	51.8		ug/L		104	80 - 120
1,1,2-Trichloroethane	50.0	54.2		ug/L		108	80 - 120
Trichloroethene	50.0	53.9		ug/L		108	80 - 120
Trichlorofluoromethane	50.0	51.6		ug/L		103	60 - 141
1,2,3-Trichloropropane	50.0	54.7		ug/L		109	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9		ug/L		102	79 - 124
1,2,4-Trimethylbenzene	50.0	50.0		ug/L		100	80 - 120
1,3,5-Trimethylbenzene	50.0	51.2		ug/L		102	80 - 120
Vinyl acetate	100	77.6		ug/L		78	67 - 135
Vinyl chloride	50.0	47.8		ug/L		96	71 - 128
Xylenes, Total	100	101		ug/L		101	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	103		80 - 122
1,2-Dichloroethane-d4 (Surr)	102		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 680-570474/6

Matrix: Water

Analysis Batch: 570474

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	247		ug/L		99	70 - 135	9	30
Acrylonitrile	500	471		ug/L		94	80 - 123	9	20
Benzene	50.0	51.0		ug/L		102	80 - 120	2	20
Bromobenzene	50.0	48.8		ug/L		98	80 - 121	4	20
Bromochloromethane	50.0	51.3		ug/L		103	80 - 120	4	20
Bromodichloromethane	50.0	51.2		ug/L		102	80 - 120	4	20
Bromoform	50.0	52.0		ug/L		104	74 - 126	5	20
Bromomethane	50.0	47.0		ug/L		94	62 - 130	9	20
2-Butanone (MEK)	250	264		ug/L		106	80 - 131	1	20
Carbon disulfide	50.0	49.5		ug/L		99	80 - 120	0	20
Carbon tetrachloride	50.0	52.3		ug/L		105	76 - 123	1	20
Chlorobenzene	50.0	49.8		ug/L		100	80 - 120	1	20
Chloroethane	50.0	50.2		ug/L		100	66 - 135	2	20
Chloroform	50.0	52.8		ug/L		106	80 - 120	1	20
Chloromethane	50.0	49.7		ug/L		99	69 - 131	0	30
2-Chlorotoluene	50.0	49.5		ug/L		99	80 - 120	3	20
4-Chlorotoluene	50.0	49.1		ug/L		98	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	80 - 120	2	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCSD 680-570474/6

Matrix: Water

Analysis Batch: 570474

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
cis-1,3-Dichloropropene	50.0	51.5		ug/L		103	80 - 120	4	20
Dibromochloromethane	50.0	52.6		ug/L		105	80 - 121	4	20
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/L		106	71 - 134	2	20
1,2-Dibromoethane	50.0	51.4		ug/L		103	80 - 120	5	20
Dibromomethane	50.0	50.7		ug/L		101	80 - 120	6	20
1,2-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 120	4	20
1,3-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120	0	20
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120	2	20
Dichlorodifluoromethane	50.0	55.7		ug/L		111	47 - 155	0	40
1,1-Dichloroethane	50.0	51.9		ug/L		104	80 - 120	0	20
1,2-Dichloroethane	50.0	52.0		ug/L		104	80 - 120	3	50
1,1-Dichloroethene	50.0	50.2		ug/L		100	76 - 120	1	20
1,2-Dichloropropane	50.0	49.5		ug/L		99	80 - 120	2	20
1,3-Dichloropropane	50.0	51.7		ug/L		103	80 - 120	3	20
2,2-Dichloropropane	50.0	39.1		ug/L		78	76 - 126	4	20
1,1-Dichloropropene	50.0	51.0		ug/L		102	80 - 120	1	20
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120	0	20
Hexachlorobutadiene	50.0	46.0		ug/L		92	60 - 140	1	20
2-Hexanone	250	247		ug/L		99	74 - 127	7	20
Iodomethane	50.0	48.7		ug/L		97	52 - 142	1	30
Isopropylbenzene	50.0	50.2		ug/L		100	80 - 120	0	20
Methylene Chloride	50.0	48.6		ug/L		97	80 - 120	2	20
4-Methyl-2-pentanone	250	256		ug/L		102	76 - 124	5	20
Methyl tert-butyl ether	50.0	50.2		ug/L		100	80 - 120	5	20
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	80 - 120	0	20
Naphthalene	50.0	51.2		ug/L		102	59 - 140	4	20
n-Butylbenzene	50.0	49.1		ug/L		98	80 - 120	0	20
N-Propylbenzene	50.0	49.5		ug/L		99	80 - 120	2	20
o-Xylene	50.0	49.1		ug/L		98	80 - 120	2	30
p-Isopropyltoluene	50.0	49.6		ug/L		99	80 - 120	0	20
sec-Butylbenzene	50.0	49.8		ug/L		100	80 - 120	1	20
Styrene	50.0	50.2		ug/L		100	80 - 120	2	20
tert-Butylbenzene	50.0	50.4		ug/L		101	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	53.3		ug/L		107	80 - 121	3	20
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/L		95	80 - 120	6	20
Tetrachloroethylene	50.0	51.7		ug/L		103	80 - 121	1	20
Toluene	50.0	51.8		ug/L		104	80 - 113	0	20
trans-1,4-Dichloro-2-butene	50.0	48.1		ug/L		96	68 - 125	5	30
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	80 - 120	0	20
trans-1,3-Dichloropropene	50.0	53.3		ug/L		107	80 - 120	6	30
1,2,3-Trichlorobenzene	50.0	47.9		ug/L		96	61 - 141	5	20
1,2,4-Trichlorobenzene	50.0	48.6		ug/L		97	68 - 128	0	20
1,1,1-Trichloroethane	50.0	52.1		ug/L		104	80 - 120	0	20
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	80 - 120	3	20
Trichloroethene	50.0	53.1		ug/L		106	80 - 120	2	20
Trichlorofluoromethane	50.0	51.0		ug/L		102	60 - 141	1	20
1,2,3-Trichloropropane	50.0	51.0		ug/L		102	80 - 123	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/L		100	79 - 124	2	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCSD 680-570474/6

Matrix: Water

Analysis Batch: 570474

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
1,2,4-Trimethylbenzene	50.0	49.0		ug/L		98	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	50.5		ug/L		101	80 - 120	1	20
Vinyl acetate	100	72.8		ug/L		73	67 - 135	6	20
Vinyl chloride	50.0	48.0		ug/L		96	71 - 128	0	20
Xylenes, Total	100	99.6		ug/L		100	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	99		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 680-570605/10

Matrix: Water

Analysis Batch: 570605

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/16/19 13:47	1
Acrylonitrile	10	U	20	10	ug/L			05/16/19 13:47	1
Benzene	0.43	U	1.0	0.43	ug/L			05/16/19 13:47	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/16/19 13:47	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/16/19 13:47	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/16/19 13:47	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/16/19 13:47	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/16/19 13:47	1
Carbon disulfide	1.92	J	2.0	1.0	ug/L			05/16/19 13:47	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/16/19 13:47	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/16/19 13:47	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/16/19 13:47	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/16/19 13:47	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/16/19 13:47	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/16/19 13:47	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/16/19 13:47	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/16/19 13:47	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/16/19 13:47	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/16/19 13:47	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/16/19 13:47	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/16/19 13:47	1
1,2-Dichlorobenzene	0.381	J	1.0	0.37	ug/L			05/16/19 13:47	1
1,3-Dichlorobenzene	0.469	J	1.0	0.43	ug/L			05/16/19 13:47	1
1,4-Dichlorobenzene	0.466	J	1.0	0.46	ug/L			05/16/19 13:47	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/16/19 13:47	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/16/19 13:47	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/16/19 13:47	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/16/19 13:47	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/16/19 13:47	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: MB 680-570605/10

Matrix: Water

Analysis Batch: 570605

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/16/19 13:47	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/16/19 13:47	1
1,1-Dichloropropene	0.368	J	1.0	0.34	ug/L			05/16/19 13:47	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/16/19 13:47	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/16/19 13:47	1
Iodomethane	5.0	U	10	5.0	ug/L			05/16/19 13:47	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/16/19 13:47	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/16/19 13:47	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/16/19 13:47	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/16/19 13:47	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
n-Butylbenzene	0.644	J	1.0	0.47	ug/L			05/16/19 13:47	1
N-Propylbenzene	0.502	J	1.0	0.38	ug/L			05/16/19 13:47	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/16/19 13:47	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/16/19 13:47	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/16/19 13:47	1
Styrene	0.27	U	1.0	0.27	ug/L			05/16/19 13:47	1
tert-Butylbenzene	0.457	J	1.0	0.45	ug/L			05/16/19 13:47	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 13:47	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/16/19 13:47	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/16/19 13:47	1
Toluene	0.48	U	1.0	0.48	ug/L			05/16/19 13:47	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/16/19 13:47	1
trans-1,2-Dichloroethene	0.745	J	1.0	0.37	ug/L			05/16/19 13:47	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/16/19 13:47	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/16/19 13:47	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/16/19 13:47	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/16/19 13:47	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/16/19 13:47	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/16/19 13:47	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/16/19 13:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/16/19 13:47	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/16/19 13:47	1
1,3,5-Trimethylbenzene	0.435	J	1.0	0.31	ug/L			05/16/19 13:47	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/16/19 13:47	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/16/19 13:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/16/19 13:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/16/19 13:47	1
Dibromofluoromethane (Surr)	96		80 - 122		05/16/19 13:47	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		05/16/19 13:47	1
Toluene-d8 (Surr)	98		80 - 120		05/16/19 13:47	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCS 680-570605/5

Matrix: Water

Analysis Batch: 570605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	234		ug/L		94	70 - 135
Acrylonitrile	500	459		ug/L		92	80 - 123
Benzene	50.0	49.6		ug/L		99	80 - 120
Bromobenzene	50.0	50.5		ug/L		101	80 - 121
Bromochloromethane	50.0	48.9		ug/L		98	80 - 120
Bromodichloromethane	50.0	45.1		ug/L		90	80 - 120
Bromoform	50.0	49.4		ug/L		99	74 - 126
Bromomethane	50.0	44.6		ug/L		89	62 - 130
2-Butanone (MEK)	250	240		ug/L		96	80 - 131
Carbon disulfide	50.0	49.8		ug/L		100	80 - 120
Carbon tetrachloride	50.0	51.6		ug/L		103	76 - 123
Chlorobenzene	50.0	50.6		ug/L		101	80 - 120
Chloroethane	50.0	51.0		ug/L		102	66 - 135
Chloroform	50.0	46.2		ug/L		92	80 - 120
Chloromethane	50.0	44.7		ug/L		89	69 - 131
2-Chlorotoluene	50.0	49.9		ug/L		100	80 - 120
4-Chlorotoluene	50.0	49.6		ug/L		99	80 - 120
cis-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	80 - 120
Dibromochloromethane	50.0	48.4		ug/L		97	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	45.0		ug/L		90	71 - 134
1,2-Dibromoethane	50.0	47.8		ug/L		96	80 - 120
Dibromomethane	50.0	45.7		ug/L		91	80 - 120
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120
1,3-Dichlorobenzene	50.0	48.8		ug/L		98	80 - 120
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120
Dichlorodifluoromethane	50.0	47.0		ug/L		94	47 - 155
1,1-Dichloroethane	50.0	50.1		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	48.8		ug/L		98	80 - 120
1,1-Dichloroethene	50.0	47.5		ug/L		95	76 - 120
1,2-Dichloropropane	50.0	48.7		ug/L		97	80 - 120
1,3-Dichloropropane	50.0	49.2		ug/L		98	80 - 120
2,2-Dichloropropane	50.0	50.3		ug/L		101	76 - 126
1,1-Dichloropropene	50.0	51.0		ug/L		102	80 - 120
Ethylbenzene	50.0	50.2		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	56.7		ug/L		113	60 - 140
2-Hexanone	250	232		ug/L		93	74 - 127
Iodomethane	50.0	50.5		ug/L		101	52 - 142
Isopropylbenzene	50.0	51.6		ug/L		103	80 - 120
Methylene Chloride	50.0	45.4		ug/L		91	80 - 120
4-Methyl-2-pentanone	250	236		ug/L		94	76 - 124
Methyl tert-butyl ether	50.0	47.0		ug/L		94	80 - 120
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	80 - 120
Naphthalene	50.0	47.5		ug/L		95	59 - 140
n-Butylbenzene	50.0	54.7		ug/L		109	80 - 120
N-Propylbenzene	50.0	50.1		ug/L		100	80 - 120
o-Xylene	50.0	49.9		ug/L		100	80 - 120
p-Isopropyltoluene	50.0	53.6		ug/L		107	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCS 680-570605/5

Matrix: Water

Analysis Batch: 570605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	50.0	55.0		ug/L		110	80 - 120
Styrene	50.0	50.9		ug/L		102	80 - 120
tert-Butylbenzene	50.0	51.3		ug/L		103	80 - 121
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/L		100	80 - 121
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/L		91	80 - 120
Tetrachloroethylene	50.0	54.4		ug/L		109	80 - 121
Toluene	50.0	50.4		ug/L		101	80 - 113
trans-1,4-Dichloro-2-butene	50.0	47.2		ug/L		94	68 - 125
trans-1,2-Dichloroethene	50.0	47.6		ug/L		95	80 - 120
trans-1,3-Dichloropropene	50.0	48.4		ug/L		97	80 - 120
1,2,3-Trichlorobenzene	50.0	50.8		ug/L		102	61 - 141
1,2,4-Trichlorobenzene	50.0	48.5		ug/L		97	68 - 128
1,1,1-Trichloroethane	50.0	48.7		ug/L		97	80 - 120
1,1,2-Trichloroethane	50.0	45.7		ug/L		91	80 - 120
Trichloroethene	50.0	51.3		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	51.2		ug/L		102	60 - 141
1,2,3-Trichloropropane	50.0	47.8		ug/L		96	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.7		ug/L		109	79 - 124
1,2,4-Trimethylbenzene	50.0	49.8		ug/L		100	80 - 120
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	80 - 120
Vinyl acetate	100	104		ug/L		104	67 - 135
Vinyl chloride	50.0	50.7		ug/L		101	71 - 128
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	96		80 - 122
1,2-Dichloroethane-d4 (Surr)	90		73 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: LCSD 680-570605/6

Matrix: Water

Analysis Batch: 570605

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	251		ug/L		101	70 - 135	7	30
Acrylonitrile	500	488		ug/L		98	80 - 123	6	20
Benzene	50.0	49.3		ug/L		99	80 - 120	1	20
Bromobenzene	50.0	50.4		ug/L		101	80 - 121	0	20
Bromochloromethane	50.0	50.0		ug/L		100	80 - 120	2	20
Bromodichloromethane	50.0	45.4		ug/L		91	80 - 120	1	20
Bromoform	50.0	49.7		ug/L		99	74 - 126	1	20
Bromomethane	50.0	43.2		ug/L		86	62 - 130	3	20
2-Butanone (MEK)	250	261		ug/L		104	80 - 131	8	20
Carbon disulfide	50.0	51.5		ug/L		103	80 - 120	3	20
Carbon tetrachloride	50.0	51.5		ug/L		103	76 - 123	0	20
Chlorobenzene	50.0	50.0		ug/L		100	80 - 120	1	20
Chloroethane	50.0	52.2		ug/L		104	66 - 135	2	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCSD 680-570605/6

Matrix: Water

Analysis Batch: 570605

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
Chloroform	50.0	45.6		ug/L		91	80 - 120	1	20
Chloromethane	50.0	44.2		ug/L		88	69 - 131	1	30
2-Chlorotoluene	50.0	49.7		ug/L		99	80 - 120	1	20
4-Chlorotoluene	50.0	49.5		ug/L		99	80 - 120	0	20
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 120	0	20
cis-1,3-Dichloropropene	50.0	49.5		ug/L		99	80 - 120	0	20
Dibromochloromethane	50.0	49.1		ug/L		98	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	45.9		ug/L		92	71 - 134	2	20
1,2-Dibromoethane	50.0	48.8		ug/L		98	80 - 120	2	20
Dibromomethane	50.0	46.7		ug/L		93	80 - 120	2	20
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120	0	20
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	80 - 120	1	20
1,4-Dichlorobenzene	50.0	48.4		ug/L		97	80 - 120	2	20
Dichlorodifluoromethane	50.0	46.1		ug/L		92	47 - 155	2	40
1,1-Dichloroethane	50.0	49.6		ug/L		99	80 - 120	1	20
1,2-Dichloroethane	50.0	49.7		ug/L		99	80 - 120	2	50
1,1-Dichloroethene	50.0	48.3		ug/L		97	76 - 120	2	20
1,2-Dichloropropane	50.0	48.8		ug/L		98	80 - 120	0	20
1,3-Dichloropropane	50.0	49.7		ug/L		99	80 - 120	1	20
2,2-Dichloropropane	50.0	51.0		ug/L		102	76 - 126	1	20
1,1-Dichloropropene	50.0	51.5		ug/L		103	80 - 120	1	20
Ethylbenzene	50.0	49.6		ug/L		99	80 - 120	1	20
Hexachlorobutadiene	50.0	58.2		ug/L		116	60 - 140	3	20
2-Hexanone	250	246		ug/L		98	74 - 127	6	20
Iodomethane	50.0	50.5		ug/L		101	52 - 142	0	30
Isopropylbenzene	50.0	51.4		ug/L		103	80 - 120	0	20
Methylene Chloride	50.0	45.9		ug/L		92	80 - 120	1	20
4-Methyl-2-pentanone	250	247		ug/L		99	76 - 124	5	20
Methyl tert-butyl ether	50.0	47.7		ug/L		95	80 - 120	1	20
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	80 - 120	0	20
Naphthalene	50.0	47.8		ug/L		96	59 - 140	1	20
n-Butylbenzene	50.0	54.7		ug/L		109	80 - 120	0	20
N-Propylbenzene	50.0	50.0		ug/L		100	80 - 120	0	20
o-Xylene	50.0	49.3		ug/L		99	80 - 120	1	30
p-Isopropyltoluene	50.0	53.6		ug/L		107	80 - 120	0	20
sec-Butylbenzene	50.0	55.7		ug/L		111	80 - 120	1	20
Styrene	50.0	51.1		ug/L		102	80 - 120	0	20
tert-Butylbenzene	50.0	50.8		ug/L		102	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	49.2		ug/L		98	80 - 121	1	20
1,1,1,2,2-Tetrachloroethane	50.0	46.0		ug/L		92	80 - 120	1	20
Tetrachloroethylene	50.0	53.9		ug/L		108	80 - 121	1	20
Toluene	50.0	50.4		ug/L		101	80 - 113	0	20
trans-1,4-Dichloro-2-butene	50.0	46.9		ug/L		94	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	48.1		ug/L		96	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	49.5		ug/L		99	80 - 120	2	30
1,2,3-Trichlorobenzene	50.0	50.4		ug/L		101	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	48.7		ug/L		97	68 - 128	0	20
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	80 - 120	2	20
1,1,2-Trichloroethane	50.0	46.5		ug/L		93	80 - 120	2	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCSD 680-570605/6

Matrix: Water

Analysis Batch: 570605

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
Trichloroethene	50.0	51.6		ug/L		103	80 - 120	1	20
Trichlorofluoromethane	50.0	53.6		ug/L		107	60 - 141	5	20
1,2,3-Trichloropropane	50.0	49.3		ug/L		99	80 - 123	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.6		ug/L		109	79 - 124	0	20
1,2,4-Trimethylbenzene	50.0	49.7		ug/L		99	80 - 120	0	20
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	80 - 120	0	20
Vinyl acetate	100	108		ug/L		108	67 - 135	3	20
Vinyl chloride	50.0	50.3		ug/L		101	71 - 128	1	20
Xylenes, Total	100	99.8		ug/L		100	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	96		80 - 122
1,2-Dichloroethane-d4 (Surr)	92		73 - 131
Toluene-d8 (Surr)	96		80 - 120

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-570028/8

Matrix: Water

Analysis Batch: 570028

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			05/13/19 11:21	1
Ethylene	0.50	U	1.0	0.50	ug/L			05/13/19 11:21	1
Methane	0.29	U	0.58	0.29	ug/L			05/13/19 11:21	1
Methane (TCD)	39	U	390	39	ug/L			05/13/19 11:21	1

Lab Sample ID: LCS 680-570028/3

Matrix: Water

Analysis Batch: 570028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	283		ug/L		98	75 - 125
Ethylene	269	261		ug/L		97	75 - 125
Methane	154	151		ug/L		98	75 - 125

Lab Sample ID: LCS 680-570028/6

Matrix: Water

Analysis Batch: 570028

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	1840		ug/L		96	75 - 125

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 680-570028/4

Matrix: Water

Analysis Batch: 570028

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	281		ug/L		97	75 - 125	1	30
Ethylene	269	259		ug/L		96	75 - 125	1	30
Methane	154	150		ug/L		98	75 - 125	0	30

Lab Sample ID: LCSD 680-570028/7

Matrix: Water

Analysis Batch: 570028

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	1930		ug/L		100	75 - 125	5	30

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-570289/2

Matrix: Water

Analysis Batch: 570289

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			05/14/19 14:48	1

Lab Sample ID: LCS 680-570289/3

Matrix: Water

Analysis Batch: 570289

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	10.7		mg/L		107	87 - 112		

Lab Sample ID: LCSD 680-570289/4

Matrix: Water

Analysis Batch: 570289

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	10.4		mg/L		104	87 - 112	2	15

Lab Sample ID: MB 680-570505/39

Matrix: Water

Analysis Batch: 570505

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			05/15/19 21:33	1

Lab Sample ID: LCS 680-570505/40

Matrix: Water

Analysis Batch: 570505

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	9.48		mg/L		95	87 - 112		

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCSD 680-570505/41

Matrix: Water

Analysis Batch: 570505

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	9.54		mg/L		95	87 - 112	1	15

Lab Sample ID: 680-168493-14 MS

Matrix: Water

Analysis Batch: 570505

Client Sample ID: OLF-G73 Port 5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	15		10.0	24.3		mg/L		96	87 - 112		

Lab Sample ID: 680-168493-14 MSD

Matrix: Water

Analysis Batch: 570505

Client Sample ID: OLF-G73 Port 5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	15		10.0	24.5		mg/L		98	87 - 112	1	15

Lab Sample ID: 680-168493-15 DU

Matrix: Water

Analysis Batch: 570505

Client Sample ID: OLF-G74 Port 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	0.52	J	0.537	J	mg/L		3	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-570090/1-A

Matrix: Water

Analysis Batch: 570402

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 570090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		05/13/19 14:05	05/14/19 15:44	1

Lab Sample ID: LCS 680-570090/2-A

Matrix: Water

Analysis Batch: 570402

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 570090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Sodium	5000	4830		ug/L		97	80 - 120		

Lab Sample ID: MB 680-569546/1-B

Matrix: Water

Analysis Batch: 569839

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 569547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		05/08/19 14:24	05/09/19 20:33	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

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

Lab Sample ID: LCS 680-569546/2-B

Matrix: Water

Analysis Batch: 569839

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 569547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	5000	4910		ug/L		98	80 - 120

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-569663/2

Matrix: Water

Analysis Batch: 569663

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/08/19 23:47	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/08/19 23:47	1

Lab Sample ID: LCS 680-569663/3

Matrix: Water

Analysis Batch: 569663

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	19.1		mg/L		96	80 - 120
Total Organic Carbon - Quad	20.0	19.1		mg/L		96	80 - 120
TOC Result 1	20.0	18.8		mg/L		94	80 - 120
TOC Result 2	20.0	18.9		mg/L		95	80 - 120
TOC Result 3	20.0	19.5		mg/L		97	80 - 120
TOC Result 4	20.0	19.3		mg/L		97	80 - 120

Lab Sample ID: LCSD 680-569663/4

Matrix: Water

Analysis Batch: 569663

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.2		mg/L		96	80 - 120	0	25
Total Organic Carbon - Quad	20.0	19.2		mg/L		96	80 - 120	0	25
TOC Result 1	20.0	18.9		mg/L		95	80 - 120	1	25
TOC Result 2	20.0	19.1		mg/L		95	80 - 120	1	25
TOC Result 3	20.0	19.4		mg/L		97	80 - 120	0	25
TOC Result 4	20.0	19.4		mg/L		97	80 - 120	0	25

Lab Sample ID: MB 680-569807/2

Matrix: Water

Analysis Batch: 569807

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/09/19 22:10	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/09/19 22:10	1

Lab Sample ID: LCS 680-569807/3

Matrix: Water

Analysis Batch: 569807

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	18.9		mg/L		95	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 680-569807/3

Matrix: Water

Analysis Batch: 569807

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Quad	20.0	18.9		mg/L		95	80 - 120
TOC Result 1	20.0	18.6		mg/L		93	80 - 120
TOC Result 2	20.0	18.8		mg/L		94	80 - 120
TOC Result 3	20.0	19.3		mg/L		96	80 - 120
TOC Result 4	20.0	19.0		mg/L		95	80 - 120

Lab Sample ID: LCSD 680-569807/4

Matrix: Water

Analysis Batch: 569807

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.0		mg/L		95	80 - 120	0	25
Total Organic Carbon - Quad	20.0	19.0		mg/L		95	80 - 120	0	25
TOC Result 1	20.0	18.6		mg/L		93	80 - 120	0	25
TOC Result 2	20.0	18.8		mg/L		94	80 - 120	0	25
TOC Result 3	20.0	19.0		mg/L		95	80 - 120	1	25
TOC Result 4	20.0	19.4		mg/L		97	80 - 120	2	25

Lab Sample ID: 680-168493-13 MS

Matrix: Water

Analysis Batch: 569807

Client Sample ID: OLF-G73 Port 4

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.76	J	20.0	20.2		mg/L		97	80 - 120
Total Organic Carbon - Quad	0.76	J	20.0	20.2		mg/L		97	80 - 120
TOC Result 1	0.77	J	20.0	20.0		mg/L		96	80 - 120
TOC Result 2	0.77	J	20.0	19.9		mg/L		95	80 - 120
TOC Result 3	0.74	J	20.0	20.5		mg/L		99	80 - 120
TOC Result 4	0.77	J	20.0	20.4		mg/L		98	80 - 120

Lab Sample ID: 680-168493-13 MSD

Matrix: Water

Analysis Batch: 569807

Client Sample ID: OLF-G73 Port 4

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	0.76	J	20.0	20.2		mg/L		97	80 - 120	0	25
Total Organic Carbon - Quad	0.76	J	20.0	20.2		mg/L		97	80 - 120	0	25
TOC Result 1	0.77	J	20.0	20.0		mg/L		96	80 - 120	0	25
TOC Result 2	0.77	J	20.0	20.2		mg/L		97	80 - 120	2	25
TOC Result 3	0.74	J	20.0	20.3		mg/L		98	80 - 120	1	25
TOC Result 4	0.77	J	20.0	20.4		mg/L		98	80 - 120	0	25

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

GC/MS VOA

Analysis Batch: 570450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-10	OLF-G73 Port 1	Total/NA	Water	8260B	
680-168493-11	OLF-G73 Port 2	Total/NA	Water	8260B	
680-168493-12	OLF-G73 Port 3	Total/NA	Water	8260B	
MB 680-570450/20	Method Blank	Total/NA	Water	8260B	
LCS 680-570450/1016	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-570450/17	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 570474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-13	OLF-G73 Port 4	Total/NA	Water	8260B	
680-168493-14	OLF-G73 Port 5	Total/NA	Water	8260B	
680-168493-15	OLF-G74 Port 1	Total/NA	Water	8260B	
680-168493-16	OLF-G74 Port 2	Total/NA	Water	8260B	
680-168493-17	OLF-G74 Port 3	Total/NA	Water	8260B	
680-168493-18	OLF-G74 Port 4	Total/NA	Water	8260B	
680-168493-19	OLF-G74 Port 5	Total/NA	Water	8260B	
MB 680-570474/10	Method Blank	Total/NA	Water	8260B	
LCS 680-570474/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-570474/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 570605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-9	TB 528	Total/NA	Water	8260B	
MB 680-570605/10	Method Blank	Total/NA	Water	8260B	
LCS 680-570605/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-570605/6	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 570028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-10	OLF-G73 Port 1	Total/NA	Water	RSK-175	
680-168493-11	OLF-G73 Port 2	Total/NA	Water	RSK-175	
680-168493-12	OLF-G73 Port 3	Total/NA	Water	RSK-175	
680-168493-13	OLF-G73 Port 4	Total/NA	Water	RSK-175	
680-168493-14	OLF-G73 Port 5	Total/NA	Water	RSK-175	
MB 680-570028/8	Method Blank	Total/NA	Water	RSK-175	
LCS 680-570028/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-570028/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-570028/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-570028/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 570289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-10	OLF-G73 Port 1	Total/NA	Water	9056A	
680-168493-11	OLF-G73 Port 2	Total/NA	Water	9056A	
680-168493-12	OLF-G73 Port 3	Total/NA	Water	9056A	
680-168493-13	OLF-G73 Port 4	Total/NA	Water	9056A	
MB 680-570289/2	Method Blank	Total/NA	Water	9056A	
LCS 680-570289/3	Lab Control Sample	Total/NA	Water	9056A	

Eurofins TestAmerica, Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

HPLC/IC (Continued)

Analysis Batch: 570289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-570289/4	Lab Control Sample Dup	Total/NA	Water	9056A	

Analysis Batch: 570505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-14	OLF-G73 Port 5	Total/NA	Water	9056A	
680-168493-15	OLF-G74 Port 1	Total/NA	Water	9056A	
680-168493-16	OLF-G74 Port 2	Total/NA	Water	9056A	
680-168493-17	OLF-G74 Port 3	Total/NA	Water	9056A	
680-168493-18	OLF-G74 Port 4	Total/NA	Water	9056A	
680-168493-19	OLF-G74 Port 5	Total/NA	Water	9056A	
MB 680-570505/39	Method Blank	Total/NA	Water	9056A	
LCS 680-570505/40	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-570505/41	Lab Control Sample Dup	Total/NA	Water	9056A	
680-168493-14 MS	OLF-G73 Port 5	Total/NA	Water	9056A	
680-168493-14 MSD	OLF-G73 Port 5	Total/NA	Water	9056A	
680-168493-15 DU	OLF-G74 Port 1	Total/NA	Water	9056A	

Metals

Filtration Batch: 569546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-12	OLF-G73 Port 3	Dissolved	Water	FILTRATION	
680-168493-13	OLF-G73 Port 4	Dissolved	Water	FILTRATION	
680-168493-15	OLF-G74 Port 1	Dissolved	Water	FILTRATION	
680-168493-16	OLF-G74 Port 2	Dissolved	Water	FILTRATION	
680-168493-19	OLF-G74 Port 5	Dissolved	Water	FILTRATION	
MB 680-569546/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-569546/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	

Prep Batch: 569547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-12	OLF-G73 Port 3	Dissolved	Water	3005A	569546
680-168493-13	OLF-G73 Port 4	Dissolved	Water	3005A	569546
680-168493-15	OLF-G74 Port 1	Dissolved	Water	3005A	569546
680-168493-16	OLF-G74 Port 2	Dissolved	Water	3005A	569546
680-168493-19	OLF-G74 Port 5	Dissolved	Water	3005A	569546
MB 680-569546/1-B	Method Blank	Dissolved	Water	3005A	569546
LCS 680-569546/2-B	Lab Control Sample	Dissolved	Water	3005A	569546

Analysis Batch: 569839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-12	OLF-G73 Port 3	Dissolved	Water	6010C	569547
680-168493-13	OLF-G73 Port 4	Dissolved	Water	6010C	569547
680-168493-15	OLF-G74 Port 1	Dissolved	Water	6010C	569547
680-168493-16	OLF-G74 Port 2	Dissolved	Water	6010C	569547
680-168493-19	OLF-G74 Port 5	Dissolved	Water	6010C	569547
MB 680-569546/1-B	Method Blank	Dissolved	Water	6010C	569547
LCS 680-569546/2-B	Lab Control Sample	Dissolved	Water	6010C	569547

Eurofins TestAmerica, Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Metals

Filtration Batch: 570088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-10	OLF-G73 Port 1	Dissolved	Water	FILTRATION	
680-168493-11	OLF-G73 Port 2	Dissolved	Water	FILTRATION	
680-168493-14	OLF-G73 Port 5	Dissolved	Water	FILTRATION	
680-168493-17	OLF-G74 Port 3	Dissolved	Water	FILTRATION	
680-168493-18	OLF-G74 Port 4	Dissolved	Water	FILTRATION	

Prep Batch: 570090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-10	OLF-G73 Port 1	Dissolved	Water	3005A	570088
680-168493-11	OLF-G73 Port 2	Dissolved	Water	3005A	570088
680-168493-14	OLF-G73 Port 5	Dissolved	Water	3005A	570088
680-168493-17	OLF-G74 Port 3	Dissolved	Water	3005A	570088
680-168493-18	OLF-G74 Port 4	Dissolved	Water	3005A	570088
MB 680-570090/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-570090/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 570402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-10	OLF-G73 Port 1	Dissolved	Water	6010C	570090
680-168493-11	OLF-G73 Port 2	Dissolved	Water	6010C	570090
680-168493-14	OLF-G73 Port 5	Dissolved	Water	6010C	570090
680-168493-17	OLF-G74 Port 3	Dissolved	Water	6010C	570090
680-168493-18	OLF-G74 Port 4	Dissolved	Water	6010C	570090
MB 680-570090/1-A	Method Blank	Total Recoverable	Water	6010C	570090
LCS 680-570090/2-A	Lab Control Sample	Total Recoverable	Water	6010C	570090

General Chemistry

Analysis Batch: 569663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-10	OLF-G73 Port 1	Total/NA	Water	9060A	
680-168493-11	OLF-G73 Port 2	Total/NA	Water	9060A	
680-168493-12	OLF-G73 Port 3	Total/NA	Water	9060A	
MB 680-569663/2	Method Blank	Total/NA	Water	9060A	
LCS 680-569663/3	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-569663/4	Lab Control Sample Dup	Total/NA	Water	9060A	

Analysis Batch: 569807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168493-13	OLF-G73 Port 4	Total/NA	Water	9060A	
680-168493-14	OLF-G73 Port 5	Total/NA	Water	9060A	
680-168493-15	OLF-G74 Port 1	Total/NA	Water	9060A	
680-168493-16	OLF-G74 Port 2	Total/NA	Water	9060A	
680-168493-17	OLF-G74 Port 3	Total/NA	Water	9060A	
680-168493-18	OLF-G74 Port 4	Total/NA	Water	9060A	
680-168493-19	OLF-G74 Port 5	Total/NA	Water	9060A	
MB 680-569807/2	Method Blank	Total/NA	Water	9060A	
LCS 680-569807/3	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-569807/4	Lab Control Sample Dup	Total/NA	Water	9060A	
680-168493-13 MS	OLF-G73 Port 4	Total/NA	Water	9060A	
680-168493-13 MSD	OLF-G73 Port 4	Total/NA	Water	9060A	

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: TB 528

Date Collected: 05/02/19 14:00

Date Received: 05/03/19 09:03

Lab Sample ID: 680-168493-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570605	05/16/19 14:10	Y1S	TAL SAV
Instrument ID: CMSB										

Client Sample ID: OLF-G73 Port 1

Date Collected: 05/01/19 14:15

Date Received: 05/03/19 09:03

Lab Sample ID: 680-168493-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570450	05/15/19 20:28	SMP	TAL SAV
Instrument ID: CMSB										
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570028	05/13/19 13:08	KAB	TAL SAV
Instrument ID: CVGU										
Total/NA	Analysis	9056A		1	5 mL	5 mL	570289	05/14/19 18:32	UI	TAL SAV
Instrument ID: CICH										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	570088	05/13/19 14:04	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	570090	05/13/19 14:05	AJR	TAL SAV
Dissolved	Analysis	6010C		1			570402	05/14/19 16:34	BCB	TAL SAV
Instrument ID: ICPE										
Total/NA	Analysis	9060A		1	40 mL	40 mL	569663	05/09/19 07:59	KDM	TAL SAV
Instrument ID: TOC7										

Client Sample ID: OLF-G73 Port 2

Date Collected: 05/01/19 14:30

Date Received: 05/03/19 09:03

Lab Sample ID: 680-168493-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570450	05/15/19 20:51	SMP	TAL SAV
Instrument ID: CMSB										
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570028	05/13/19 13:21	KAB	TAL SAV
Instrument ID: CVGU										
Total/NA	Analysis	9056A		1	5 mL	5 mL	570289	05/14/19 18:45	UI	TAL SAV
Instrument ID: CICH										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	570088	05/13/19 14:04	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	570090	05/13/19 14:05	AJR	TAL SAV
Dissolved	Analysis	6010C		1			570402	05/14/19 16:38	BCB	TAL SAV
Instrument ID: ICPE										
Total/NA	Analysis	9060A		1	40 mL	40 mL	569663	05/09/19 08:17	KDM	TAL SAV
Instrument ID: TOC7										

Client Sample ID: OLF-G73 Port 3

Date Collected: 05/01/19 14:50

Date Received: 05/03/19 09:03

Lab Sample ID: 680-168493-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570450	05/15/19 21:14	SMP	TAL SAV
Instrument ID: CMSB										

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G73 Port 3

Lab Sample ID: 680-168493-12

Date Collected: 05/01/19 14:50

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570028	05/13/19 13:34	KAB	TAL SAV
Total/NA	Analysis	9056A		1	5 mL	5 mL	570289	05/14/19 18:58	UI	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	569546	05/08/19 14:21	BJB	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	569547	05/08/19 14:24	BJB	TAL SAV
Dissolved	Analysis	6010C		1			569839	05/09/19 22:05	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569663	05/09/19 08:35	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G73 Port 4

Lab Sample ID: 680-168493-13

Date Collected: 05/01/19 15:20

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570474	05/16/19 09:11	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570028	05/13/19 13:47	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570289	05/14/19 19:11	UI	TAL SAV
		Instrument ID: CICH								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	569546	05/08/19 14:22	BJB	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	569547	05/08/19 14:24	BJB	TAL SAV
Dissolved	Analysis	6010C		1			569839	05/09/19 22:43	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569807	05/09/19 23:05	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G73 Port 5

Lab Sample ID: 680-168493-14

Date Collected: 05/01/19 15:45

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570474	05/16/19 08:24	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570028	05/13/19 14:46	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570505	05/15/19 22:11	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	570088	05/13/19 14:04	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	570090	05/13/19 14:05	AJR	TAL SAV
Dissolved	Analysis	6010C		1			570402	05/14/19 16:30	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569807	05/09/19 23:55	KDM	TAL SAV
		Instrument ID: TOC7								

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 1

Lab Sample ID: 680-168493-15

Date Collected: 05/01/19 11:25

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570474	05/16/19 08:47	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570505	05/15/19 22:49	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	569546	05/08/19 14:21	BJB	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	569547	05/08/19 14:24	BJB	TAL SAV
Dissolved	Analysis	6010C		1			569839	05/09/19 22:01	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569807	05/10/19 00:12	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G74 Port 2

Lab Sample ID: 680-168493-16

Date Collected: 05/01/19 11:40

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570474	05/16/19 07:38	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570505	05/15/19 23:14	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	569546	05/08/19 14:21	BJB	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	569547	05/08/19 14:24	BJB	TAL SAV
Dissolved	Analysis	6010C		1			569839	05/09/19 22:18	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569807	05/10/19 00:30	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G74 Port 3

Lab Sample ID: 680-168493-17

Date Collected: 05/01/19 11:55

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570474	05/16/19 08:01	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570505	05/15/19 23:27	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	570088	05/13/19 14:04	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	570090	05/13/19 14:05	AJR	TAL SAV
Dissolved	Analysis	6010C		1			570402	05/14/19 16:26	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569807	05/10/19 00:47	KDM	TAL SAV
		Instrument ID: TOC7								

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Client Sample ID: OLF-G74 Port 4

Lab Sample ID: 680-168493-18

Date Collected: 05/01/19 12:15

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570474	05/16/19 06:51	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570505	05/15/19 23:40	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	570088	05/13/19 14:04	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	570090	05/13/19 14:05	AJR	TAL SAV
Dissolved	Analysis	6010C		1			570402	05/14/19 16:57	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569807	05/10/19 01:04	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: OLF-G74 Port 5

Lab Sample ID: 680-168493-19

Date Collected: 05/01/19 12:40

Matrix: Water

Date Received: 05/03/19 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570474	05/16/19 07:14	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	570505	05/15/19 23:52	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	569546	05/08/19 14:21	BJB	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	569547	05/08/19 14:24	BJB	TAL SAV
Dissolved	Analysis	6010C		1			569839	05/09/19 22:22	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	569807	05/10/19 01:21	KDM	TAL SAV
		Instrument ID: TOC7								

Laboratory References:

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

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Laboratory: Eurofins TestAmerica, Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-19 *
Alaska	State Program	10		06-30-19 *
Alaska (UST)	State Program	10	UST-104	09-22-19
ANAB	DoD		L2463	09-22-19
ANAB	ISO/IEC 17025		L2463.01	09-22-19
Arizona	State Program	9	AZ0808	12-14-19
Arkansas DEQ	State Program	6	88-0692	02-01-20
California	State Program	9	2939	06-30-19 *
Colorado	State Program	8	N/A	12-31-19
Connecticut	State Program	1	PH-0161	03-31-21
GA Dept. of Agriculture	State Program	4	N/A	06-12-19
Georgia	State Program	4	N/A	06-30-19 *
Georgia	State Program	4	803	06-30-19 *
Guam	State Program	9	15-005r	04-17-20
Hawaii	State Program	9	N/A	06-30-19
Illinois	NELAP	5	200022	11-30-19
Indiana	State Program	5	N/A	06-30-19 *
Iowa	State Program	7	353	06-30-19 *
Kentucky (DW)	State Program	4	90084	12-31-19
Kentucky (UST)	State Program	4	18	06-30-19
Kentucky (WW)	State Program	4	90084	12-31-19
Louisiana	NELAP	6	30690	06-30-19
Louisiana (DW)	NELAP	6	LA160019	12-31-19
Maine	State Program	1	GA00006	09-25-20
Maryland	State Program	3	250	12-31-19
Massachusetts	State Program	1	M-GA006	06-30-19 *
Michigan	State Program	5	9925	06-30-19
Mississippi	State Program	4	N/A	06-30-19 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-19 *
New Jersey	NELAP	2	GA769	06-30-19 *
New Mexico	State Program	6	N/A	06-30-19 *
New York	NELAP	2	10842	04-01-20
North Carolina (DW)	State Program	4	13701	07-31-19
North Carolina (WW/SW)	State Program	4	269	12-31-19
Oklahoma	State Program	6	9984	08-31-19
Pennsylvania	NELAP	3	68-00474	06-30-19 *
Puerto Rico	State Program	2	GA00006	01-01-20
South Carolina	State Program	4	98001	06-30-19 *
Tennessee	State Program	4	TN02961	06-30-19 *
Texas	NELAP	6	T104704185-16-9	11-30-19
Texas (DW)	State Program	1	T104704185	06-30-19 *
US Fish & Wildlife	Federal		LE058448-0	07-31-19
Virginia	NELAP	3	460161	06-14-19 *
Washington	State Program	10	C805	06-10-19 *
West Virginia (DW)	State Program	3	9950C	12-31-19
West Virginia DEP	State Program	3	094	06-30-19 *
Wisconsin	State Program	5	999819810	08-31-19
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Savannah

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168493-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (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
9060A	Organic Carbon, Total (TOC)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
FILTRATION	Sample Filtration	None	TAL SAV

Protocol References:

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 TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-168493-2

Login Number: 168493

List Source: Eurofins TestAmerica, Savannah

List Number: 1

Creator: Banda, Christy S

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	

ANALYTICAL REPORT

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

Laboratory Job ID: 680-168798-1
Client Project/Site: Parcel 80(6), Landfill 3

For:
Matrix Environmental Services, LLC
1601 Blake Street
Suite 200
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt



Authorized for release by:
5/28/2019 7:38:45 PM

Jon Lawhon, Project Manager I
(912)250-0283
jon.lawhon@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 80(6), Landfill 3

Job ID: 680-168798-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

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
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-168798-1	OLF-G48	Water	05/08/19 11:31	05/09/19 09:32	
680-168798-2	OLF-G35	Water	05/08/19 14:21	05/09/19 09:32	
680-168798-3	OLF-G23	Water	05/08/19 11:06	05/09/19 09:32	
680-168798-4	OLF-G24	Water	05/08/19 12:56	05/09/19 09:32	
680-168798-5	OLF-G71 Port 4	Water	05/06/19 12:00	05/09/19 09:32	
680-168798-6	OLF-G71 Port 2	Water	05/06/19 11:30	05/09/19 09:32	
680-168798-7	DUP #321	Water	05/06/19 00:00	05/09/19 09:32	
680-168798-8	OLF-G71 Port 5	Water	05/06/19 12:10	05/09/19 09:32	
680-168798-9	OLF-G71 Port 1	Water	05/06/19 11:00	05/09/19 09:32	
680-168798-10	OLF-G71 Port 3	Water	05/06/19 11:45	05/09/19 09:32	
680-168798-11	DUP #320	Water	05/06/19 00:00	05/09/19 09:32	
680-168798-12	TB#529	Water	05/08/19 15:15	05/09/19 09:32	

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Job ID: 680-168798-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC
Project: Parcel 80(6), Landfill 3

Report Number: 680-168798-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 5/9/2019 9:32 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OLF-G48 (680-168798-1), OLF-G35 (680-168798-2), OLF-G23 (680-168798-3), OLF-G24 (680-168798-4), OLF-G71 Port 4 (680-168798-5), OLF-G71 Port 2 (680-168798-6), DUP #321 (680-168798-7), OLF-G71 Port 5 (680-168798-8), OLF-G71 Port 1 (680-168798-9), OLF-G71 Port 3 (680-168798-10), DUP #320 (680-168798-11) and TB#529 (680-168798-12) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/18/2019, 05/19/2019 and 05/22/2019.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-570979 recovered outside control limits for the following analytes: Vinyl acetate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-570979, 680-570940 and 680-571246.

The following sample was diluted to bring the concentration of target analytes within the calibration range: OLF-G23 (680-168798-3). Elevated reporting limits (RLs) are provided.

Surrogate recovery for the following sample was outside control limits: OLF-G23 (680-168798-3). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

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

METALS (ICP) - DISSOLVED

Samples OLF-G35 (680-168798-2), OLF-G23 (680-168798-3), OLF-G24 (680-168798-4), OLF-G71 Port 4 (680-168798-5), OLF-G71 Port 2 (680-168798-6), DUP #321 (680-168798-7), OLF-G71 Port 5 (680-168798-8), OLF-G71 Port 1 (680-168798-9), OLF-G71 Port 3 (680-168798-10) and DUP #320 (680-168798-11) were analyzed for Metals (ICP) - Dissolved in accordance with EPA SW-846 Method 6010C. The samples were prepared and analyzed on 05/20/2019.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples OLF-G35 (680-168798-2), OLF-G23 (680-168798-3), OLF-G24 (680-168798-4), OLF-G71 Port 4 (680-168798-5), OLF-G71 Port 2 (680-168798-6), DUP #321 (680-168798-7), OLF-G71 Port 5 (680-168798-8), OLF-G71 Port 1 (680-168798-9), OLF-G71 Port 3 (680-168798-10) and DUP #320 (680-168798-11) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with SW 846 9056A. The samples were analyzed on 05/22/2019.

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Job ID: 680-168798-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

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

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Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G48

Lab Sample ID: 680-168798-1

Date Collected: 05/08/19 11:31

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/22/19 07:23	1
Acrylonitrile	10	U	20	10	ug/L			05/22/19 07:23	1
Benzene	0.43	U	1.0	0.43	ug/L			05/22/19 07:23	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/22/19 07:23	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/22/19 07:23	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/22/19 07:23	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/22/19 07:23	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/22/19 07:23	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/22/19 07:23	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/22/19 07:23	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/22/19 07:23	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/22/19 07:23	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/22/19 07:23	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/22/19 07:23	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/22/19 07:23	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/22/19 07:23	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/22/19 07:23	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/22/19 07:23	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/22/19 07:23	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/22/19 07:23	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/22/19 07:23	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/22/19 07:23	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/22/19 07:23	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/22/19 07:23	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/22/19 07:23	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/22/19 07:23	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/22/19 07:23	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/22/19 07:23	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/22/19 07:23	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/22/19 07:23	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/22/19 07:23	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/22/19 07:23	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/22/19 07:23	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/22/19 07:23	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/22/19 07:23	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/22/19 07:23	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/22/19 07:23	1
Iodomethane	5.0	U	10	5.0	ug/L			05/22/19 07:23	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/22/19 07:23	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/22/19 07:23	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/22/19 07:23	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/22/19 07:23	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/22/19 07:23	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/22/19 07:23	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 07:23	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/22/19 07:23	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/22/19 07:23	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/22/19 07:23	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/22/19 07:23	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G48

Lab Sample ID: 680-168798-1

Date Collected: 05/08/19 11:31

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/22/19 07:23	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/22/19 07:23	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 07:23	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/22/19 07:23	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/22/19 07:23	1
Toluene	0.48	U	1.0	0.48	ug/L			05/22/19 07:23	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/22/19 07:23	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/22/19 07:23	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/22/19 07:23	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 07:23	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 07:23	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 07:23	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/22/19 07:23	1
Trichloroethene	1.2		1.0	0.48	ug/L			05/22/19 07:23	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/22/19 07:23	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/22/19 07:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/22/19 07:23	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 07:23	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/22/19 07:23	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/22/19 07:23	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/22/19 07:23	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/22/19 07:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/22/19 07:23	1
Dibromofluoromethane (Surr)	106		80 - 122		05/22/19 07:23	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		05/22/19 07:23	1
Toluene-d8 (Surr)	101		80 - 120		05/22/19 07:23	1

Client Sample ID: OLF-G35

Lab Sample ID: 680-168798-2

Date Collected: 05/08/19 14:21

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/22/19 07:46	1
Acrylonitrile	10	U	20	10	ug/L			05/22/19 07:46	1
Benzene	0.43	U	1.0	0.43	ug/L			05/22/19 07:46	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/22/19 07:46	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/22/19 07:46	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/22/19 07:46	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/22/19 07:46	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/22/19 07:46	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/22/19 07:46	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/22/19 07:46	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/22/19 07:46	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/22/19 07:46	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/22/19 07:46	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/22/19 07:46	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/22/19 07:46	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G35

Lab Sample ID: 680-168798-2

Date Collected: 05/08/19 14:21

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/22/19 07:46	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/22/19 07:46	1
cis-1,2-Dichloroethene	0.58	J	1.0	0.41	ug/L			05/22/19 07:46	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/22/19 07:46	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/22/19 07:46	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/22/19 07:46	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/22/19 07:46	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/22/19 07:46	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/22/19 07:46	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/22/19 07:46	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/22/19 07:46	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/22/19 07:46	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/22/19 07:46	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/22/19 07:46	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/22/19 07:46	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/22/19 07:46	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/22/19 07:46	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/22/19 07:46	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/22/19 07:46	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/22/19 07:46	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/22/19 07:46	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/22/19 07:46	1
Iodomethane	5.0	U	10	5.0	ug/L			05/22/19 07:46	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/22/19 07:46	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/22/19 07:46	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/22/19 07:46	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/22/19 07:46	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/22/19 07:46	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/22/19 07:46	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 07:46	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/22/19 07:46	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/22/19 07:46	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/22/19 07:46	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/22/19 07:46	1
Styrene	0.27	U	1.0	0.27	ug/L			05/22/19 07:46	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/22/19 07:46	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 07:46	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/22/19 07:46	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/22/19 07:46	1
Toluene	0.48	U	1.0	0.48	ug/L			05/22/19 07:46	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/22/19 07:46	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/22/19 07:46	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/22/19 07:46	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 07:46	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 07:46	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 07:46	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/22/19 07:46	1
Trichloroethene	4.7		1.0	0.48	ug/L			05/22/19 07:46	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/22/19 07:46	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G35

Lab Sample ID: 680-168798-2

Date Collected: 05/08/19 14:21

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/22/19 07:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/22/19 07:46	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 07:46	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/22/19 07:46	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/22/19 07:46	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/22/19 07:46	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/22/19 07:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		05/22/19 07:46	1
Dibromofluoromethane (Surr)	103		80 - 122		05/22/19 07:46	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131		05/22/19 07:46	1
Toluene-d8 (Surr)	103		80 - 120		05/22/19 07:46	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	12		1.0	0.40	mg/L			05/22/19 18:18	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3000		1000	480	ug/L		05/20/19 11:07	05/20/19 23:59	1

Client Sample ID: OLF-G23

Lab Sample ID: 680-168798-3

Date Collected: 05/08/19 11:06

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	35	U	50	35	ug/L			05/22/19 08:09	5
Acrylonitrile	50	U	100	50	ug/L			05/22/19 08:09	5
Benzene	2.2	U	5.0	2.2	ug/L			05/22/19 08:09	5
Bromobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 08:09	5
Bromochloromethane	2.3	U	5.0	2.3	ug/L			05/22/19 08:09	5
Bromodichloromethane	2.2	U	5.0	2.2	ug/L			05/22/19 08:09	5
Bromoform	2.2	U	5.0	2.2	ug/L			05/22/19 08:09	5
Bromomethane	13	U	25	13	ug/L			05/22/19 08:09	5
2-Butanone (MEK)	17	U	50	17	ug/L			05/22/19 08:09	5
Carbon disulfide	5.0	U	10	5.0	ug/L			05/22/19 08:09	5
Carbon tetrachloride	1.7	U	5.0	1.7	ug/L			05/22/19 08:09	5
Chlorobenzene	7.5		5.0	1.3	ug/L			05/22/19 08:09	5
Chloroethane	13	U	25	13	ug/L			05/22/19 08:09	5
Chloroform	2.5	U	5.0	2.5	ug/L			05/22/19 08:09	5
Chloromethane	2.0	U	5.0	2.0	ug/L			05/22/19 08:09	5
2-Chlorotoluene	1.4	U	5.0	1.4	ug/L			05/22/19 08:09	5
4-Chlorotoluene	2.3	U	5.0	2.3	ug/L			05/22/19 08:09	5
cis-1,2-Dichloroethene	93		5.0	2.1	ug/L			05/22/19 08:09	5
cis-1,3-Dichloropropene	2.0	U	5.0	2.0	ug/L			05/22/19 08:09	5
Dibromochloromethane	1.6	U	5.0	1.6	ug/L			05/22/19 08:09	5
1,2-Dibromo-3-Chloropropane	5.5	U	25	5.5	ug/L			05/22/19 08:09	5
1,2-Dibromoethane	2.2	U	5.0	2.2	ug/L			05/22/19 08:09	5
Dibromomethane	1.8	U	5.0	1.8	ug/L			05/22/19 08:09	5

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G23

Lab Sample ID: 680-168798-3

Date Collected: 05/08/19 11:06

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.9	U	5.0	1.9	ug/L			05/22/19 08:09	5
1,3-Dichlorobenzene	2.2	U	5.0	2.2	ug/L			05/22/19 08:09	5
1,4-Dichlorobenzene	2.3	U	5.0	2.3	ug/L			05/22/19 08:09	5
Dichlorodifluoromethane	3.0	U	5.0	3.0	ug/L			05/22/19 08:09	5
1,1-Dichloroethane	1.9	U	5.0	1.9	ug/L			05/22/19 08:09	5
1,2-Dichloroethane	2.5	U	5.0	2.5	ug/L			05/22/19 08:09	5
1,1-Dichloroethene	1.8	U	5.0	1.8	ug/L			05/22/19 08:09	5
1,2-Dichloropropane	3.4	U	5.0	3.4	ug/L			05/22/19 08:09	5
1,3-Dichloropropane	1.7	U	5.0	1.7	ug/L			05/22/19 08:09	5
2,2-Dichloropropane	1.9	U	5.0	1.9	ug/L			05/22/19 08:09	5
1,1-Dichloropropene	1.7	U	5.0	1.7	ug/L			05/22/19 08:09	5
Ethylbenzene	1.7	U	5.0	1.7	ug/L			05/22/19 08:09	5
Hexachlorobutadiene	13	U	25	13	ug/L			05/22/19 08:09	5
2-Hexanone	10	U	50	10	ug/L			05/22/19 08:09	5
Iodomethane	25	U	50	25	ug/L			05/22/19 08:09	5
Isopropylbenzene	1.8	U	5.0	1.8	ug/L			05/22/19 08:09	5
Methylene Chloride	13	U	25	13	ug/L			05/22/19 08:09	5
4-Methyl-2-pentanone	11	U	50	11	ug/L			05/22/19 08:09	5
Methyl tert-butyl ether	1.5	U	50	1.5	ug/L			05/22/19 08:09	5
m-Xylene & p-Xylene	1.8	U	5.0	1.8	ug/L			05/22/19 08:09	5
Naphthalene	13	U	25	13	ug/L			05/22/19 08:09	5
n-Butylbenzene	2.4	U	5.0	2.4	ug/L			05/22/19 08:09	5
N-Propylbenzene	1.9	U	5.0	1.9	ug/L			05/22/19 08:09	5
o-Xylene	1.2	U	5.0	1.2	ug/L			05/22/19 08:09	5
p-Isopropyltoluene	2.4	U	5.0	2.4	ug/L			05/22/19 08:09	5
sec-Butylbenzene	2.1	U	5.0	2.1	ug/L			05/22/19 08:09	5
Styrene	1.4	U	5.0	1.4	ug/L			05/22/19 08:09	5
tert-Butylbenzene	2.3	U	5.0	2.3	ug/L			05/22/19 08:09	5
1,1,1,2-Tetrachloroethane	1.9	U	5.0	1.9	ug/L			05/22/19 08:09	5
1,1,2,2-Tetrachloroethane	150		5.0	3.1	ug/L			05/22/19 08:09	5
Tetrachloroethylene	3.7	U	5.0	3.7	ug/L			05/22/19 08:09	5
Toluene	2.4	U	5.0	2.4	ug/L			05/22/19 08:09	5
trans-1,4-Dichloro-2-butene	2.6	U	10	2.6	ug/L			05/22/19 08:09	5
trans-1,2-Dichloroethene	30		5.0	1.9	ug/L			05/22/19 08:09	5
trans-1,3-Dichloropropene	2.1	U	5.0	2.1	ug/L			05/22/19 08:09	5
1,2,3-Trichlorobenzene	13	U	25	13	ug/L			05/22/19 08:09	5
1,2,4-Trichlorobenzene	13	U	25	13	ug/L			05/22/19 08:09	5
1,1,1-Trichloroethane	1.9	U	5.0	1.9	ug/L			05/22/19 08:09	5
1,1,2-Trichloroethane	5.5		5.0	1.7	ug/L			05/22/19 08:09	5
Trichloroethene	150		5.0	2.4	ug/L			05/22/19 08:09	5
Trichlorofluoromethane	2.1	U	5.0	2.1	ug/L			05/22/19 08:09	5
1,2,3-Trichloropropane	2.0	U	5.0	2.0	ug/L			05/22/19 08:09	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.8	U	5.0	1.8	ug/L			05/22/19 08:09	5
1,2,4-Trimethylbenzene	2.4	U	5.0	2.4	ug/L			05/22/19 08:09	5
1,3,5-Trimethylbenzene	1.6	U	5.0	1.6	ug/L			05/22/19 08:09	5
Vinyl acetate	4.1	U	10	4.1	ug/L			05/22/19 08:09	5
Vinyl chloride	2.5	U	5.0	2.5	ug/L			05/22/19 08:09	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			05/22/19 08:09	5

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G23

Lab Sample ID: 680-168798-3

Date Collected: 05/08/19 11:06

Matrix: Water

Date Received: 05/09/19 09:32

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/22/19 08:09	5
Dibromofluoromethane (Surr)	129	X	80 - 122		05/22/19 08:09	5
1,2-Dichloroethane-d4 (Surr)	140	X	73 - 131		05/22/19 08:09	5
Toluene-d8 (Surr)	90		80 - 120		05/22/19 08:09	5

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.98	J	1.0	0.40	mg/L			05/22/19 18:44	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	6200		1000	480	ug/L		05/20/19 11:07	05/20/19 23:54	1

Client Sample ID: OLF-G24

Lab Sample ID: 680-168798-4

Date Collected: 05/08/19 12:56

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/22/19 07:00	1
Acrylonitrile	10	U	20	10	ug/L			05/22/19 07:00	1
Benzene	0.43	U	1.0	0.43	ug/L			05/22/19 07:00	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/22/19 07:00	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/22/19 07:00	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/22/19 07:00	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/22/19 07:00	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/22/19 07:00	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/22/19 07:00	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/22/19 07:00	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/22/19 07:00	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/22/19 07:00	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/22/19 07:00	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/22/19 07:00	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/22/19 07:00	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/22/19 07:00	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/22/19 07:00	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/22/19 07:00	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/22/19 07:00	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/22/19 07:00	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/22/19 07:00	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/22/19 07:00	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/22/19 07:00	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/22/19 07:00	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/22/19 07:00	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/22/19 07:00	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/22/19 07:00	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/22/19 07:00	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/22/19 07:00	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/22/19 07:00	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/22/19 07:00	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/22/19 07:00	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G24

Lab Sample ID: 680-168798-4

Date Collected: 05/08/19 12:56

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/22/19 07:00	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/22/19 07:00	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/22/19 07:00	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/22/19 07:00	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/22/19 07:00	1
Iodomethane	5.0	U	10	5.0	ug/L			05/22/19 07:00	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/22/19 07:00	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/22/19 07:00	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/22/19 07:00	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/22/19 07:00	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/22/19 07:00	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/22/19 07:00	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 07:00	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/22/19 07:00	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/22/19 07:00	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/22/19 07:00	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/22/19 07:00	1
Styrene	0.27	U	1.0	0.27	ug/L			05/22/19 07:00	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/22/19 07:00	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 07:00	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/22/19 07:00	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/22/19 07:00	1
Toluene	0.48	U	1.0	0.48	ug/L			05/22/19 07:00	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/22/19 07:00	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/22/19 07:00	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/22/19 07:00	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 07:00	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 07:00	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 07:00	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/22/19 07:00	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/22/19 07:00	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/22/19 07:00	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/22/19 07:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/22/19 07:00	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 07:00	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/22/19 07:00	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/22/19 07:00	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/22/19 07:00	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/22/19 07:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		05/22/19 07:00	1
Dibromofluoromethane (Surr)	102		80 - 122		05/22/19 07:00	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		05/22/19 07:00	1
Toluene-d8 (Surr)	102		80 - 120		05/22/19 07:00	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.41	J	1.0	0.40	mg/L			05/22/19 18:56	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G24

Lab Sample ID: 680-168798-4

Date Collected: 05/08/19 12:56

Matrix: Water

Date Received: 05/09/19 09:32

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	2000		1000	480	ug/L		05/20/19 11:07	05/20/19 23:35	1

Client Sample ID: OLF-G71 Port 4

Lab Sample ID: 680-168798-5

Date Collected: 05/06/19 12:00

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/18/19 19:09	1
Acrylonitrile	10	U	20	10	ug/L			05/18/19 19:09	1
Benzene	0.44	J	1.0	0.43	ug/L			05/18/19 19:09	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/18/19 19:09	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/18/19 19:09	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/18/19 19:09	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/18/19 19:09	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/18/19 19:09	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/18/19 19:09	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/18/19 19:09	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/18/19 19:09	1
Chlorobenzene	2.3		1.0	0.26	ug/L			05/18/19 19:09	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/18/19 19:09	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/18/19 19:09	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/18/19 19:09	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/18/19 19:09	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/18/19 19:09	1
cis-1,2-Dichloroethene	26		1.0	0.41	ug/L			05/18/19 19:09	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/18/19 19:09	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/18/19 19:09	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/18/19 19:09	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/18/19 19:09	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/18/19 19:09	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/18/19 19:09	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/18/19 19:09	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/18/19 19:09	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/18/19 19:09	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/18/19 19:09	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/18/19 19:09	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/18/19 19:09	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/18/19 19:09	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/18/19 19:09	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/18/19 19:09	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/18/19 19:09	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/18/19 19:09	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/18/19 19:09	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/18/19 19:09	1
Iodomethane	5.0	U	10	5.0	ug/L			05/18/19 19:09	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/18/19 19:09	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/18/19 19:09	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/18/19 19:09	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/18/19 19:09	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G71 Port 4

Lab Sample ID: 680-168798-5

Date Collected: 05/06/19 12:00

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/18/19 19:09	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/18/19 19:09	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/18/19 19:09	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/18/19 19:09	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/18/19 19:09	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/18/19 19:09	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/18/19 19:09	1
Styrene	0.27	U	1.0	0.27	ug/L			05/18/19 19:09	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/18/19 19:09	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/18/19 19:09	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/18/19 19:09	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/18/19 19:09	1
Toluene	1.8		1.0	0.48	ug/L			05/18/19 19:09	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/18/19 19:09	1
trans-1,2-Dichloroethene	1.6		1.0	0.37	ug/L			05/18/19 19:09	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/18/19 19:09	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/18/19 19:09	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/18/19 19:09	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/18/19 19:09	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/18/19 19:09	1
Trichloroethene	22		1.0	0.48	ug/L			05/18/19 19:09	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/18/19 19:09	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/18/19 19:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/18/19 19:09	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/18/19 19:09	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/18/19 19:09	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/18/19 19:09	1
Vinyl chloride	1.6		1.0	0.50	ug/L			05/18/19 19:09	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/18/19 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120					05/18/19 19:09	1
Dibromofluoromethane (Surr)	103		80 - 122					05/18/19 19:09	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131					05/18/19 19:09	1
Toluene-d8 (Surr)	100		80 - 120					05/18/19 19:09	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			05/22/19 19:09	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	13000		1000	480	ug/L		05/20/19 11:07	05/20/19 23:07	1

Client Sample ID: OLF-G71 Port 2

Lab Sample ID: 680-168798-6

Date Collected: 05/06/19 11:30

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	J	10	7.0	ug/L			05/19/19 17:00	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G71 Port 2

Lab Sample ID: 680-168798-6

Date Collected: 05/06/19 11:30

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	10	U	20	10	ug/L			05/19/19 17:00	1
Benzene	0.67	J	1.0	0.43	ug/L			05/19/19 17:00	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/19/19 17:00	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/19/19 17:00	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/19/19 17:00	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/19/19 17:00	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/19/19 17:00	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/19/19 17:00	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/19/19 17:00	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/19/19 17:00	1
Chlorobenzene	2.5		1.0	0.26	ug/L			05/19/19 17:00	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/19/19 17:00	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/19/19 17:00	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/19/19 17:00	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/19/19 17:00	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/19/19 17:00	1
cis-1,2-Dichloroethene	47		1.0	0.41	ug/L			05/19/19 17:00	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/19/19 17:00	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/19/19 17:00	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/19/19 17:00	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/19/19 17:00	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/19/19 17:00	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/19/19 17:00	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/19/19 17:00	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/19/19 17:00	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/19/19 17:00	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/19/19 17:00	1
1,2-Dichloroethane	0.66	J	1.0	0.50	ug/L			05/19/19 17:00	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/19/19 17:00	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/19/19 17:00	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/19/19 17:00	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/19/19 17:00	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/19/19 17:00	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/19/19 17:00	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/19/19 17:00	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/19/19 17:00	1
Iodomethane	5.0	U	10	5.0	ug/L			05/19/19 17:00	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/19/19 17:00	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/19/19 17:00	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/19/19 17:00	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/19/19 17:00	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/19/19 17:00	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/19/19 17:00	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 17:00	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/19/19 17:00	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/19/19 17:00	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/19/19 17:00	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/19/19 17:00	1
Styrene	0.27	U	1.0	0.27	ug/L			05/19/19 17:00	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G71 Port 2

Lab Sample ID: 680-168798-6

Date Collected: 05/06/19 11:30

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/19/19 17:00	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 17:00	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/19/19 17:00	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/19/19 17:00	1
Toluene	1.3		1.0	0.48	ug/L			05/19/19 17:00	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/19/19 17:00	1
trans-1,2-Dichloroethene	4.2		1.0	0.37	ug/L			05/19/19 17:00	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/19/19 17:00	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 17:00	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 17:00	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 17:00	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/19/19 17:00	1
Trichloroethene	10		1.0	0.48	ug/L			05/19/19 17:00	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/19/19 17:00	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/19/19 17:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/19/19 17:00	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 17:00	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/19/19 17:00	1
Vinyl acetate	0.81	U *	2.0	0.81	ug/L			05/19/19 17:00	1
Vinyl chloride	2.3		1.0	0.50	ug/L			05/19/19 17:00	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/19/19 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		05/19/19 17:00	1
Dibromofluoromethane (Surr)	99		80 - 122		05/19/19 17:00	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		05/19/19 17:00	1
Toluene-d8 (Surr)	98		80 - 120		05/19/19 17:00	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7.1		1.0	0.40	mg/L			05/22/19 19:22	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	35000		1000	480	ug/L		05/20/19 11:07	05/20/19 23:40	1

Client Sample ID: DUP #321

Lab Sample ID: 680-168798-7

Date Collected: 05/06/19 00:00

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/19/19 17:21	1
Acrylonitrile	10	U	20	10	ug/L			05/19/19 17:21	1
Benzene	1.1		1.0	0.43	ug/L			05/19/19 17:21	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/19/19 17:21	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/19/19 17:21	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/19/19 17:21	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/19/19 17:21	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/19/19 17:21	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/19/19 17:21	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: DUP #321

Lab Sample ID: 680-168798-7

Date Collected: 05/06/19 00:00

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/19/19 17:21	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/19/19 17:21	1
Chlorobenzene	5.9		1.0	0.26	ug/L			05/19/19 17:21	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/19/19 17:21	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/19/19 17:21	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/19/19 17:21	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/19/19 17:21	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/19/19 17:21	1
cis-1,2-Dichloroethene	110		1.0	0.41	ug/L			05/19/19 17:21	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/19/19 17:21	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/19/19 17:21	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/19/19 17:21	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/19/19 17:21	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/19/19 17:21	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/19/19 17:21	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/19/19 17:21	1
1,4-Dichlorobenzene	0.64 J		1.0	0.46	ug/L			05/19/19 17:21	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/19/19 17:21	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/19/19 17:21	1
1,2-Dichloroethane	0.95 J		1.0	0.50	ug/L			05/19/19 17:21	1
1,1-Dichloroethene	0.90 J		1.0	0.36	ug/L			05/19/19 17:21	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/19/19 17:21	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/19/19 17:21	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/19/19 17:21	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/19/19 17:21	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/19/19 17:21	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/19/19 17:21	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/19/19 17:21	1
Iodomethane	5.0	U	10	5.0	ug/L			05/19/19 17:21	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/19/19 17:21	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/19/19 17:21	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/19/19 17:21	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/19/19 17:21	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/19/19 17:21	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/19/19 17:21	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 17:21	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/19/19 17:21	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/19/19 17:21	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/19/19 17:21	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/19/19 17:21	1
Styrene	0.27	U	1.0	0.27	ug/L			05/19/19 17:21	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/19/19 17:21	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 17:21	1
1,1,2,2-Tetrachloroethane	8.8		1.0	0.62	ug/L			05/19/19 17:21	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/19/19 17:21	1
Toluene	0.48 J		1.0	0.48	ug/L			05/19/19 17:21	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/19/19 17:21	1
trans-1,2-Dichloroethene	17		1.0	0.37	ug/L			05/19/19 17:21	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/19/19 17:21	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: DUP #321

Lab Sample ID: 680-168798-7

Date Collected: 05/06/19 00:00

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 17:21	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 17:21	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 17:21	1
1,1,2-Trichloroethane	0.75	J	1.0	0.33	ug/L			05/19/19 17:21	1
Trichloroethene	91		1.0	0.48	ug/L			05/19/19 17:21	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/19/19 17:21	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/19/19 17:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/19/19 17:21	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 17:21	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/19/19 17:21	1
Vinyl acetate	0.81	U *	2.0	0.81	ug/L			05/19/19 17:21	1
Vinyl chloride	5.7		1.0	0.50	ug/L			05/19/19 17:21	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/19/19 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		05/19/19 17:21	1
Dibromofluoromethane (Surr)	103		80 - 122		05/19/19 17:21	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		05/19/19 17:21	1
Toluene-d8 (Surr)	96		80 - 120		05/19/19 17:21	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5.0		1.0	0.40	mg/L			05/22/19 19:34	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	79000		1000	480	ug/L		05/20/19 11:07	05/20/19 23:45	1

Client Sample ID: OLF-G71 Port 5

Lab Sample ID: 680-168798-8

Date Collected: 05/06/19 12:10

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/19/19 17:42	1
Acrylonitrile	10	U	20	10	ug/L			05/19/19 17:42	1
Benzene	0.92	J	1.0	0.43	ug/L			05/19/19 17:42	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/19/19 17:42	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/19/19 17:42	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/19/19 17:42	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/19/19 17:42	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/19/19 17:42	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/19/19 17:42	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/19/19 17:42	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/19/19 17:42	1
Chlorobenzene	1.2		1.0	0.26	ug/L			05/19/19 17:42	1
Chloroethane	2.5	J	5.0	2.5	ug/L			05/19/19 17:42	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/19/19 17:42	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/19/19 17:42	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/19/19 17:42	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/19/19 17:42	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G71 Port 5

Lab Sample ID: 680-168798-8

Date Collected: 05/06/19 12:10

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	9.0		1.0	0.41	ug/L			05/19/19 17:42	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/19/19 17:42	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/19/19 17:42	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/19/19 17:42	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/19/19 17:42	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/19/19 17:42	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/19/19 17:42	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/19/19 17:42	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/19/19 17:42	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/19/19 17:42	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/19/19 17:42	1
1,2-Dichloroethane	0.58 J		1.0	0.50	ug/L			05/19/19 17:42	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/19/19 17:42	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/19/19 17:42	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/19/19 17:42	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/19/19 17:42	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/19/19 17:42	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/19/19 17:42	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/19/19 17:42	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/19/19 17:42	1
Iodomethane	5.0	U	10	5.0	ug/L			05/19/19 17:42	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/19/19 17:42	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/19/19 17:42	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/19/19 17:42	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/19/19 17:42	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/19/19 17:42	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/19/19 17:42	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 17:42	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/19/19 17:42	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/19/19 17:42	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/19/19 17:42	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/19/19 17:42	1
Styrene	0.27	U	1.0	0.27	ug/L			05/19/19 17:42	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/19/19 17:42	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 17:42	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/19/19 17:42	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/19/19 17:42	1
Toluene	3.3		1.0	0.48	ug/L			05/19/19 17:42	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/19/19 17:42	1
trans-1,2-Dichloroethene	0.48 J		1.0	0.37	ug/L			05/19/19 17:42	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/19/19 17:42	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 17:42	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 17:42	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 17:42	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/19/19 17:42	1
Trichloroethene	1.3		1.0	0.48	ug/L			05/19/19 17:42	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/19/19 17:42	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/19/19 17:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/19/19 17:42	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G71 Port 5

Lab Sample ID: 680-168798-8

Date Collected: 05/06/19 12:10

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 17:42	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/19/19 17:42	1
Vinyl acetate	0.81	U *	2.0	0.81	ug/L			05/19/19 17:42	1
Vinyl chloride	0.50	J	1.0	0.50	ug/L			05/19/19 17:42	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/19/19 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/19/19 17:42	1
Dibromofluoromethane (Surr)	100		80 - 122		05/19/19 17:42	1
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		05/19/19 17:42	1
Toluene-d8 (Surr)	98		80 - 120		05/19/19 17:42	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			05/22/19 19:47	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	25000		1000	480	ug/L		05/20/19 11:07	05/20/19 23:21	1

Client Sample ID: OLF-G71 Port 1

Lab Sample ID: 680-168798-9

Date Collected: 05/06/19 11:00

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/19/19 18:03	1
Acrylonitrile	10	U	20	10	ug/L			05/19/19 18:03	1
Benzene	1.1		1.0	0.43	ug/L			05/19/19 18:03	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/19/19 18:03	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/19/19 18:03	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/19/19 18:03	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/19/19 18:03	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/19/19 18:03	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/19/19 18:03	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/19/19 18:03	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/19/19 18:03	1
Chlorobenzene	5.8		1.0	0.26	ug/L			05/19/19 18:03	1
Chloroethane	4.3	J	5.0	2.5	ug/L			05/19/19 18:03	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/19/19 18:03	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/19/19 18:03	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/19/19 18:03	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/19/19 18:03	1
cis-1,2-Dichloroethene	120		1.0	0.41	ug/L			05/19/19 18:03	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/19/19 18:03	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/19/19 18:03	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/19/19 18:03	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/19/19 18:03	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/19/19 18:03	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/19/19 18:03	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/19/19 18:03	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G71 Port 1

Lab Sample ID: 680-168798-9

Date Collected: 05/06/19 11:00

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.66	J	1.0	0.46	ug/L			05/19/19 18:03	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/19/19 18:03	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/19/19 18:03	1
1,2-Dichloroethane	1.0		1.0	0.50	ug/L			05/19/19 18:03	1
1,1-Dichloroethene	0.89	J	1.0	0.36	ug/L			05/19/19 18:03	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/19/19 18:03	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/19/19 18:03	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/19/19 18:03	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/19/19 18:03	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/19/19 18:03	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/19/19 18:03	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/19/19 18:03	1
Iodomethane	5.0	U	10	5.0	ug/L			05/19/19 18:03	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/19/19 18:03	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/19/19 18:03	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/19/19 18:03	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/19/19 18:03	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/19/19 18:03	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/19/19 18:03	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 18:03	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/19/19 18:03	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/19/19 18:03	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/19/19 18:03	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/19/19 18:03	1
Styrene	0.27	U	1.0	0.27	ug/L			05/19/19 18:03	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/19/19 18:03	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 18:03	1
1,1,2,2-Tetrachloroethane	7.4		1.0	0.62	ug/L			05/19/19 18:03	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/19/19 18:03	1
Toluene	0.61	J	1.0	0.48	ug/L			05/19/19 18:03	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/19/19 18:03	1
trans-1,2-Dichloroethene	17		1.0	0.37	ug/L			05/19/19 18:03	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/19/19 18:03	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 18:03	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 18:03	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 18:03	1
1,1,2-Trichloroethane	0.55	J	1.0	0.33	ug/L			05/19/19 18:03	1
Trichloroethene	83		1.0	0.48	ug/L			05/19/19 18:03	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/19/19 18:03	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/19/19 18:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/19/19 18:03	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 18:03	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/19/19 18:03	1
Vinyl acetate	0.81	U *	2.0	0.81	ug/L			05/19/19 18:03	1
Vinyl chloride	6.2		1.0	0.50	ug/L			05/19/19 18:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/19/19 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		05/19/19 18:03	1
Dibromofluoromethane (Surr)	102		80 - 122		05/19/19 18:03	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G71 Port 1

Date Collected: 05/06/19 11:00

Date Received: 05/09/19 09:32

Lab Sample ID: 680-168798-9

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		05/19/19 18:03	1
Toluene-d8 (Surr)	100		80 - 120		05/19/19 18:03	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5.1		1.0	0.40	mg/L			05/22/19 20:00	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	77000		1000	480	ug/L		05/20/19 11:07	05/20/19 23:49	1

Client Sample ID: OLF-G71 Port 3

Date Collected: 05/06/19 11:45

Date Received: 05/09/19 09:32

Lab Sample ID: 680-168798-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/19/19 18:24	1
Acrylonitrile	10	U	20	10	ug/L			05/19/19 18:24	1
Benzene	0.67	J	1.0	0.43	ug/L			05/19/19 18:24	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/19/19 18:24	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/19/19 18:24	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/19/19 18:24	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/19/19 18:24	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/19/19 18:24	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/19/19 18:24	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/19/19 18:24	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/19/19 18:24	1
Chlorobenzene	2.7		1.0	0.26	ug/L			05/19/19 18:24	1
Chloroethane	3.2	J	5.0	2.5	ug/L			05/19/19 18:24	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/19/19 18:24	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/19/19 18:24	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/19/19 18:24	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/19/19 18:24	1
cis-1,2-Dichloroethene	27		1.0	0.41	ug/L			05/19/19 18:24	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/19/19 18:24	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/19/19 18:24	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/19/19 18:24	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/19/19 18:24	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/19/19 18:24	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/19/19 18:24	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/19/19 18:24	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/19/19 18:24	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/19/19 18:24	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/19/19 18:24	1
1,2-Dichloroethane	0.64	J	1.0	0.50	ug/L			05/19/19 18:24	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/19/19 18:24	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/19/19 18:24	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/19/19 18:24	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/19/19 18:24	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G71 Port 3

Lab Sample ID: 680-168798-10

Date Collected: 05/06/19 11:45

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/19/19 18:24	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/19/19 18:24	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/19/19 18:24	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/19/19 18:24	1
Iodomethane	5.0	U	10	5.0	ug/L			05/19/19 18:24	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/19/19 18:24	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/19/19 18:24	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/19/19 18:24	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/19/19 18:24	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/19/19 18:24	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/19/19 18:24	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 18:24	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/19/19 18:24	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/19/19 18:24	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/19/19 18:24	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/19/19 18:24	1
Styrene	0.27	U	1.0	0.27	ug/L			05/19/19 18:24	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/19/19 18:24	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 18:24	1
1,1,2,2-Tetrachloroethane	0.73	J	1.0	0.62	ug/L			05/19/19 18:24	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/19/19 18:24	1
Toluene	0.48	U	1.0	0.48	ug/L			05/19/19 18:24	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/19/19 18:24	1
trans-1,2-Dichloroethene	5.1		1.0	0.37	ug/L			05/19/19 18:24	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/19/19 18:24	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 18:24	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 18:24	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 18:24	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/19/19 18:24	1
Trichloroethene	52		1.0	0.48	ug/L			05/19/19 18:24	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/19/19 18:24	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/19/19 18:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/19/19 18:24	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 18:24	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/19/19 18:24	1
Vinyl acetate	0.81	U *	2.0	0.81	ug/L			05/19/19 18:24	1
Vinyl chloride	3.6		1.0	0.50	ug/L			05/19/19 18:24	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/19/19 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/19/19 18:24	1
Dibromofluoromethane (Surr)	100		80 - 122		05/19/19 18:24	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131		05/19/19 18:24	1
Toluene-d8 (Surr)	101		80 - 120		05/19/19 18:24	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4		1.0	0.40	mg/L			05/22/19 20:12	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G71 Port 3

Lab Sample ID: 680-168798-10

Date Collected: 05/06/19 11:45

Matrix: Water

Date Received: 05/09/19 09:32

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	15000		1000	480	ug/L		05/20/19 11:07	05/20/19 23:30	1

Client Sample ID: DUP #320

Lab Sample ID: 680-168798-11

Date Collected: 05/06/19 00:00

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/19/19 18:45	1
Acrylonitrile	10	U	20	10	ug/L			05/19/19 18:45	1
Benzene	1.1		1.0	0.43	ug/L			05/19/19 18:45	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/19/19 18:45	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/19/19 18:45	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/19/19 18:45	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/19/19 18:45	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/19/19 18:45	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/19/19 18:45	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/19/19 18:45	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/19/19 18:45	1
Chlorobenzene	4.1		1.0	0.26	ug/L			05/19/19 18:45	1
Chloroethane	7.7		5.0	2.5	ug/L			05/19/19 18:45	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/19/19 18:45	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/19/19 18:45	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/19/19 18:45	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/19/19 18:45	1
cis-1,2-Dichloroethene	77		1.0	0.41	ug/L			05/19/19 18:45	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/19/19 18:45	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/19/19 18:45	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/19/19 18:45	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/19/19 18:45	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/19/19 18:45	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/19/19 18:45	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/19/19 18:45	1
1,4-Dichlorobenzene	0.46	J	1.0	0.46	ug/L			05/19/19 18:45	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/19/19 18:45	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/19/19 18:45	1
1,2-Dichloroethane	0.92	J	1.0	0.50	ug/L			05/19/19 18:45	1
1,1-Dichloroethene	0.43	J	1.0	0.36	ug/L			05/19/19 18:45	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/19/19 18:45	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/19/19 18:45	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/19/19 18:45	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/19/19 18:45	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/19/19 18:45	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/19/19 18:45	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/19/19 18:45	1
Iodomethane	5.0	U	10	5.0	ug/L			05/19/19 18:45	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/19/19 18:45	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/19/19 18:45	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/19/19 18:45	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/19/19 18:45	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: DUP #320

Lab Sample ID: 680-168798-11

Date Collected: 05/06/19 00:00

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/19/19 18:45	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/19/19 18:45	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 18:45	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/19/19 18:45	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/19/19 18:45	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/19/19 18:45	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/19/19 18:45	1
Styrene	0.27	U	1.0	0.27	ug/L			05/19/19 18:45	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/19/19 18:45	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 18:45	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/19/19 18:45	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/19/19 18:45	1
Toluene	2.1		1.0	0.48	ug/L			05/19/19 18:45	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/19/19 18:45	1
trans-1,2-Dichloroethene	7.0		1.0	0.37	ug/L			05/19/19 18:45	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/19/19 18:45	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 18:45	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 18:45	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 18:45	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/19/19 18:45	1
Trichloroethene	17		1.0	0.48	ug/L			05/19/19 18:45	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/19/19 18:45	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/19/19 18:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/19/19 18:45	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 18:45	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/19/19 18:45	1
Vinyl acetate	0.81	U *	2.0	0.81	ug/L			05/19/19 18:45	1
Vinyl chloride	4.3		1.0	0.50	ug/L			05/19/19 18:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/19/19 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120					05/19/19 18:45	1
Dibromofluoromethane (Surr)	100		80 - 122					05/19/19 18:45	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131					05/19/19 18:45	1
Toluene-d8 (Surr)	98		80 - 120					05/19/19 18:45	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	6.9		1.0	0.40	mg/L			05/22/19 21:28	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	38000		1000	480	ug/L		05/20/19 11:07	05/20/19 23:26	1

Client Sample ID: TB#529

Lab Sample ID: 680-168798-12

Date Collected: 05/08/19 15:15

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/22/19 01:34	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: TB#529

Lab Sample ID: 680-168798-12

Date Collected: 05/08/19 15:15

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	10	U	20	10	ug/L			05/22/19 01:34	1
Benzene	0.43	U	1.0	0.43	ug/L			05/22/19 01:34	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/22/19 01:34	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/22/19 01:34	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/22/19 01:34	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/22/19 01:34	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/22/19 01:34	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/22/19 01:34	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/22/19 01:34	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/22/19 01:34	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/22/19 01:34	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/22/19 01:34	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/22/19 01:34	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/22/19 01:34	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/22/19 01:34	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/22/19 01:34	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/22/19 01:34	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/22/19 01:34	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/22/19 01:34	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/22/19 01:34	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/22/19 01:34	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/22/19 01:34	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/22/19 01:34	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/22/19 01:34	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/22/19 01:34	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/22/19 01:34	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/22/19 01:34	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/22/19 01:34	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/22/19 01:34	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/22/19 01:34	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/22/19 01:34	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/22/19 01:34	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/22/19 01:34	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/22/19 01:34	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/22/19 01:34	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/22/19 01:34	1
Iodomethane	5.0	U	10	5.0	ug/L			05/22/19 01:34	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/22/19 01:34	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/22/19 01:34	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/22/19 01:34	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/22/19 01:34	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/22/19 01:34	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/22/19 01:34	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 01:34	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/22/19 01:34	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/22/19 01:34	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/22/19 01:34	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/22/19 01:34	1
Styrene	0.27	U	1.0	0.27	ug/L			05/22/19 01:34	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: TB#529

Lab Sample ID: 680-168798-12

Date Collected: 05/08/19 15:15

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/22/19 01:34	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 01:34	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/22/19 01:34	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/22/19 01:34	1
Toluene	0.48	U	1.0	0.48	ug/L			05/22/19 01:34	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/22/19 01:34	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/22/19 01:34	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/22/19 01:34	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 01:34	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 01:34	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 01:34	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/22/19 01:34	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/22/19 01:34	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/22/19 01:34	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/22/19 01:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/22/19 01:34	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 01:34	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/22/19 01:34	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/22/19 01:34	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/22/19 01:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/22/19 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		05/22/19 01:34	1
Dibromofluoromethane (Surr)	106		80 - 122		05/22/19 01:34	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		05/22/19 01:34	1
Toluene-d8 (Surr)	103		80 - 120		05/22/19 01:34	1

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-570940/9

Matrix: Water

Analysis Batch: 570940

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/18/19 16:03	1
Acrylonitrile	10	U	20	10	ug/L			05/18/19 16:03	1
Benzene	0.43	U	1.0	0.43	ug/L			05/18/19 16:03	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/18/19 16:03	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/18/19 16:03	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/18/19 16:03	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/18/19 16:03	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/18/19 16:03	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/18/19 16:03	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/18/19 16:03	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/18/19 16:03	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/18/19 16:03	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/18/19 16:03	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/18/19 16:03	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/18/19 16:03	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/18/19 16:03	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/18/19 16:03	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/18/19 16:03	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/18/19 16:03	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/18/19 16:03	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/18/19 16:03	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/18/19 16:03	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/18/19 16:03	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/18/19 16:03	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/18/19 16:03	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/18/19 16:03	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/18/19 16:03	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/18/19 16:03	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/18/19 16:03	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/18/19 16:03	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/18/19 16:03	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/18/19 16:03	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/18/19 16:03	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/18/19 16:03	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/18/19 16:03	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/18/19 16:03	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/18/19 16:03	1
Iodomethane	5.0	U	10	5.0	ug/L			05/18/19 16:03	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/18/19 16:03	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/18/19 16:03	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/18/19 16:03	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/18/19 16:03	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/18/19 16:03	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/18/19 16:03	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/18/19 16:03	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/18/19 16:03	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/18/19 16:03	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/18/19 16:03	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: MB 680-570940/9

Matrix: Water

Analysis Batch: 570940

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/18/19 16:03	1
Styrene	0.27	U	1.0	0.27	ug/L			05/18/19 16:03	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/18/19 16:03	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/18/19 16:03	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/18/19 16:03	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/18/19 16:03	1
Toluene	0.48	U	1.0	0.48	ug/L			05/18/19 16:03	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/18/19 16:03	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/18/19 16:03	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/18/19 16:03	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/18/19 16:03	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/18/19 16:03	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/18/19 16:03	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/18/19 16:03	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/18/19 16:03	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/18/19 16:03	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/18/19 16:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/18/19 16:03	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/18/19 16:03	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/18/19 16:03	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/18/19 16:03	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/18/19 16:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/18/19 16:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		05/18/19 16:03	1
Dibromofluoromethane (Surr)	104		80 - 122		05/18/19 16:03	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131		05/18/19 16:03	1
Toluene-d8 (Surr)	104		80 - 120		05/18/19 16:03	1

Lab Sample ID: LCS 680-570940/4

Matrix: Water

Analysis Batch: 570940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	267		ug/L		107	70 - 135
Acrylonitrile	500	524		ug/L		105	80 - 123
Benzene	50.0	52.3		ug/L		105	80 - 120
Bromobenzene	50.0	51.3		ug/L		103	80 - 121
Bromochloromethane	50.0	52.5		ug/L		105	80 - 120
Bromodichloromethane	50.0	55.1		ug/L		110	80 - 120
Bromoform	50.0	55.2		ug/L		110	74 - 126
Bromomethane	50.0	46.9		ug/L		94	62 - 130
2-Butanone (MEK)	250	287		ug/L		115	80 - 131
Carbon disulfide	50.0	52.7		ug/L		105	80 - 120
Carbon tetrachloride	50.0	57.0		ug/L		114	76 - 123
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120
Chloroethane	50.0	51.7		ug/L		103	66 - 135

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCS 680-570940/4

Matrix: Water

Analysis Batch: 570940

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	55.2		ug/L		110	80 - 120
Chloromethane	50.0	53.3		ug/L		107	69 - 131
2-Chlorotoluene	50.0	49.4		ug/L		99	80 - 120
4-Chlorotoluene	50.0	49.2		ug/L		98	80 - 120
cis-1,2-Dichloroethene	50.0	55.1		ug/L		110	80 - 120
cis-1,3-Dichloropropene	50.0	57.1		ug/L		114	80 - 120
Dibromochloromethane	50.0	56.3		ug/L		113	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	54.5		ug/L		109	71 - 134
1,2-Dibromoethane	50.0	54.1		ug/L		108	80 - 120
Dibromomethane	50.0	55.7		ug/L		111	80 - 120
1,2-Dichlorobenzene	50.0	47.0		ug/L		94	80 - 120
1,3-Dichlorobenzene	50.0	47.0		ug/L		94	80 - 120
1,4-Dichlorobenzene	50.0	47.5		ug/L		95	80 - 120
Dichlorodifluoromethane	50.0	55.6		ug/L		111	47 - 155
1,1-Dichloroethane	50.0	54.5		ug/L		109	80 - 120
1,2-Dichloroethane	50.0	54.7		ug/L		109	80 - 120
1,1-Dichloroethene	50.0	56.2		ug/L		112	76 - 120
1,2-Dichloropropane	50.0	52.3		ug/L		105	80 - 120
1,3-Dichloropropane	50.0	53.2		ug/L		106	80 - 120
2,2-Dichloropropane	50.0	58.5		ug/L		117	76 - 126
1,1-Dichloropropene	50.0	54.5		ug/L		109	80 - 120
Ethylbenzene	50.0	49.8		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	51.0		ug/L		102	60 - 140
2-Hexanone	250	265		ug/L		106	74 - 127
Iodomethane	50.0	48.9		ug/L		98	52 - 142
Isopropylbenzene	50.0	51.2		ug/L		102	80 - 120
Methylene Chloride	50.0	50.9		ug/L		102	80 - 120
4-Methyl-2-pentanone	250	267		ug/L		107	76 - 124
Methyl tert-butyl ether	50.0	53.8		ug/L		108	80 - 120
m-Xylene & p-Xylene	50.0	50.1		ug/L		100	80 - 120
Naphthalene	50.0	51.9		ug/L		104	59 - 140
n-Butylbenzene	50.0	49.3		ug/L		99	80 - 120
N-Propylbenzene	50.0	50.4		ug/L		101	80 - 120
o-Xylene	50.0	49.9		ug/L		100	80 - 120
p-Isopropyltoluene	50.0	48.8		ug/L		98	80 - 120
sec-Butylbenzene	50.0	51.3		ug/L		103	80 - 120
Styrene	50.0	50.8		ug/L		102	80 - 120
tert-Butylbenzene	50.0	51.8		ug/L		104	80 - 121
1,1,1,2-Tetrachloroethane	50.0	54.0		ug/L		108	80 - 121
1,1,2,2-Tetrachloroethane	50.0	51.4		ug/L		103	80 - 120
Tetrachloroethylene	50.0	54.9		ug/L		110	80 - 121
Toluene	50.0	52.4		ug/L		105	80 - 113
trans-1,4-Dichloro-2-butene	50.0	56.3		ug/L		113	68 - 125
trans-1,2-Dichloroethene	50.0	54.2		ug/L		108	80 - 120
trans-1,3-Dichloropropene	50.0	56.2		ug/L		112	80 - 120
1,2,3-Trichlorobenzene	50.0	50.0		ug/L		100	61 - 141
1,2,4-Trichlorobenzene	50.0	50.0		ug/L		100	68 - 128
1,1,1-Trichloroethane	50.0	55.9		ug/L		112	80 - 120
1,1,2-Trichloroethane	50.0	55.4		ug/L		111	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCS 680-570940/4

Matrix: Water

Analysis Batch: 570940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	53.9		ug/L		108	80 - 120
Trichlorofluoromethane	50.0	56.9		ug/L		114	60 - 141
1,2,3-Trichloropropane	50.0	53.4		ug/L		107	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.6		ug/L		117	79 - 124
1,2,4-Trimethylbenzene	50.0	50.0		ug/L		100	80 - 120
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	80 - 120
Vinyl acetate	100	111		ug/L		111	67 - 135
Vinyl chloride	50.0	52.2		ug/L		104	71 - 128
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	106		80 - 122
1,2-Dichloroethane-d4 (Surr)	104		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 680-570940/5

Matrix: Water

Analysis Batch: 570940

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	260		ug/L		104	70 - 135	3	30
Acrylonitrile	500	517		ug/L		103	80 - 123	1	20
Benzene	50.0	51.4		ug/L		103	80 - 120	2	20
Bromobenzene	50.0	49.0		ug/L		98	80 - 121	5	20
Bromochloromethane	50.0	51.8		ug/L		104	80 - 120	1	20
Bromodichloromethane	50.0	53.7		ug/L		107	80 - 120	3	20
Bromoform	50.0	53.1		ug/L		106	74 - 126	4	20
Bromomethane	50.0	51.4		ug/L		103	62 - 130	9	20
2-Butanone (MEK)	250	282		ug/L		113	80 - 131	2	20
Carbon disulfide	50.0	51.4		ug/L		103	80 - 120	2	20
Carbon tetrachloride	50.0	55.8		ug/L		112	76 - 123	2	20
Chlorobenzene	50.0	49.3		ug/L		99	80 - 120	2	20
Chloroethane	50.0	50.6		ug/L		101	66 - 135	2	20
Chloroform	50.0	54.3		ug/L		109	80 - 120	2	20
Chloromethane	50.0	52.9		ug/L		106	69 - 131	1	30
2-Chlorotoluene	50.0	48.8		ug/L		98	80 - 120	1	20
4-Chlorotoluene	50.0	48.9		ug/L		98	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	52.3		ug/L		105	80 - 120	5	20
cis-1,3-Dichloropropene	50.0	55.2		ug/L		110	80 - 120	3	20
Dibromochloromethane	50.0	55.2		ug/L		110	80 - 121	2	20
1,2-Dibromo-3-Chloropropane	50.0	55.8		ug/L		112	71 - 134	3	20
1,2-Dibromoethane	50.0	53.0		ug/L		106	80 - 120	2	20
Dibromomethane	50.0	53.1		ug/L		106	80 - 120	5	20
1,2-Dichlorobenzene	50.0	47.6		ug/L		95	80 - 120	1	20
1,3-Dichlorobenzene	50.0	47.4		ug/L		95	80 - 120	1	20
1,4-Dichlorobenzene	50.0	49.0		ug/L		98	80 - 120	3	20
Dichlorodifluoromethane	50.0	54.2		ug/L		108	47 - 155	3	40

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCSD 680-570940/5

Matrix: Water

Analysis Batch: 570940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	52.1		ug/L		104	80 - 120	5	20
1,2-Dichloroethane	50.0	52.1		ug/L		104	80 - 120	5	50
1,1-Dichloroethene	50.0	55.0		ug/L		110	76 - 120	2	20
1,2-Dichloropropane	50.0	50.9		ug/L		102	80 - 120	3	20
1,3-Dichloropropane	50.0	52.1		ug/L		104	80 - 120	2	20
2,2-Dichloropropane	50.0	56.2		ug/L		112	76 - 126	4	20
1,1-Dichloropropene	50.0	51.6		ug/L		103	80 - 120	5	20
Ethylbenzene	50.0	49.2		ug/L		98	80 - 120	1	20
Hexachlorobutadiene	50.0	50.1		ug/L		100	60 - 140	2	20
2-Hexanone	250	264		ug/L		106	74 - 127	0	20
Iodomethane	50.0	51.1		ug/L		102	52 - 142	4	30
Isopropylbenzene	50.0	50.2		ug/L		100	80 - 120	2	20
Methylene Chloride	50.0	49.4		ug/L		99	80 - 120	3	20
4-Methyl-2-pentanone	250	265		ug/L		106	76 - 124	1	20
Methyl tert-butyl ether	50.0	53.0		ug/L		106	80 - 120	2	20
m-Xylene & p-Xylene	50.0	48.9		ug/L		98	80 - 120	2	20
Naphthalene	50.0	51.8		ug/L		104	59 - 140	0	20
n-Butylbenzene	50.0	49.7		ug/L		99	80 - 120	1	20
N-Propylbenzene	50.0	49.3		ug/L		99	80 - 120	2	20
o-Xylene	50.0	48.9		ug/L		98	80 - 120	2	30
p-Isopropyltoluene	50.0	48.9		ug/L		98	80 - 120	0	20
sec-Butylbenzene	50.0	50.1		ug/L		100	80 - 120	2	20
Styrene	50.0	49.5		ug/L		99	80 - 120	3	20
tert-Butylbenzene	50.0	50.5		ug/L		101	80 - 121	3	20
1,1,1,2-Tetrachloroethane	50.0	52.4		ug/L		105	80 - 121	3	20
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/L		99	80 - 120	4	20
Tetrachloroethylene	50.0	53.6		ug/L		107	80 - 121	2	20
Toluene	50.0	52.5		ug/L		105	80 - 113	0	20
trans-1,4-Dichloro-2-butene	50.0	54.8		ug/L		110	68 - 125	3	30
trans-1,2-Dichloroethene	50.0	52.5		ug/L		105	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	80 - 120	3	30
1,2,3-Trichlorobenzene	50.0	49.8		ug/L		100	61 - 141	0	20
1,2,4-Trichlorobenzene	50.0	48.4		ug/L		97	68 - 128	3	20
1,1,1-Trichloroethane	50.0	54.3		ug/L		109	80 - 120	3	20
1,1,2-Trichloroethane	50.0	52.8		ug/L		106	80 - 120	5	20
Trichloroethene	50.0	52.9		ug/L		106	80 - 120	2	20
Trichlorofluoromethane	50.0	55.3		ug/L		111	60 - 141	3	20
1,2,3-Trichloropropane	50.0	52.4		ug/L		105	80 - 123	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.6		ug/L		111	79 - 124	5	20
1,2,4-Trimethylbenzene	50.0	49.0		ug/L		98	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	49.6		ug/L		99	80 - 120	0	20
Vinyl acetate	100	105		ug/L		105	67 - 135	6	20
Vinyl chloride	50.0	51.5		ug/L		103	71 - 128	1	20
Xylenes, Total	100	97.8		ug/L		98	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCSD 680-570940/5

Matrix: Water

Analysis Batch: 570940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	103		80 - 122
1,2-Dichloroethane-d4 (Surr)	101		73 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: MB 680-570979/9

Matrix: Water

Analysis Batch: 570979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/19/19 14:33	1
Acrylonitrile	10	U	20	10	ug/L			05/19/19 14:33	1
Benzene	0.43	U	1.0	0.43	ug/L			05/19/19 14:33	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/19/19 14:33	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/19/19 14:33	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/19/19 14:33	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/19/19 14:33	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/19/19 14:33	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/19/19 14:33	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/19/19 14:33	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/19/19 14:33	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/19/19 14:33	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/19/19 14:33	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/19/19 14:33	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/19/19 14:33	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/19/19 14:33	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/19/19 14:33	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/19/19 14:33	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/19/19 14:33	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/19/19 14:33	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/19/19 14:33	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/19/19 14:33	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/19/19 14:33	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/19/19 14:33	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/19/19 14:33	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/19/19 14:33	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/19/19 14:33	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/19/19 14:33	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/19/19 14:33	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/19/19 14:33	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/19/19 14:33	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/19/19 14:33	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/19/19 14:33	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/19/19 14:33	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/19/19 14:33	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/19/19 14:33	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/19/19 14:33	1
Iodomethane	5.0	U	10	5.0	ug/L			05/19/19 14:33	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/19/19 14:33	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: MB 680-570979/9

Matrix: Water

Analysis Batch: 570979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/19/19 14:33	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/19/19 14:33	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/19/19 14:33	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/19/19 14:33	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/19/19 14:33	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 14:33	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/19/19 14:33	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/19/19 14:33	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/19/19 14:33	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/19/19 14:33	1
Styrene	0.27	U	1.0	0.27	ug/L			05/19/19 14:33	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/19/19 14:33	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 14:33	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/19/19 14:33	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/19/19 14:33	1
Toluene	0.48	U	1.0	0.48	ug/L			05/19/19 14:33	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/19/19 14:33	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/19/19 14:33	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/19/19 14:33	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 14:33	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 14:33	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 14:33	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/19/19 14:33	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/19/19 14:33	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/19/19 14:33	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/19/19 14:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/19/19 14:33	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 14:33	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/19/19 14:33	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/19/19 14:33	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/19/19 14:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/19/19 14:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		05/19/19 14:33	1
Dibromofluoromethane (Surr)	96		80 - 122		05/19/19 14:33	1
1,2-Dichloroethane-d4 (Surr)	93		73 - 131		05/19/19 14:33	1
Toluene-d8 (Surr)	99		80 - 120		05/19/19 14:33	1

Lab Sample ID: LCS 680-570979/4

Matrix: Water

Analysis Batch: 570979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	253		ug/L		101	70 - 135
Acrylonitrile	500	530		ug/L		106	80 - 123
Benzene	50.0	49.9		ug/L		100	80 - 120
Bromobenzene	50.0	51.8		ug/L		104	80 - 121

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCS 680-570979/4

Matrix: Water

Analysis Batch: 570979

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	52.2		ug/L		104	80 - 120
Bromodichloromethane	50.0	55.3		ug/L		111	80 - 120
Bromoform	50.0	55.7		ug/L		111	74 - 126
Bromomethane	50.0	41.9		ug/L		84	62 - 130
2-Butanone (MEK)	250	251		ug/L		100	80 - 131
Carbon disulfide	50.0	53.7		ug/L		107	80 - 120
Carbon tetrachloride	50.0	54.2		ug/L		108	76 - 123
Chlorobenzene	50.0	49.4		ug/L		99	80 - 120
Chloroethane	50.0	41.3		ug/L		83	66 - 135
Chloroform	50.0	51.7		ug/L		103	80 - 120
Chloromethane	50.0	49.8		ug/L		100	69 - 131
2-Chlorotoluene	50.0	49.4		ug/L		99	80 - 120
4-Chlorotoluene	50.0	50.7		ug/L		101	80 - 120
cis-1,2-Dichloroethene	50.0	51.1		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	53.6		ug/L		107	80 - 120
Dibromochloromethane	50.0	57.0		ug/L		114	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	55.1		ug/L		110	71 - 134
1,2-Dibromoethane	50.0	54.8		ug/L		110	80 - 120
Dibromomethane	50.0	52.6		ug/L		105	80 - 120
1,2-Dichlorobenzene	50.0	47.0		ug/L		94	80 - 120
1,3-Dichlorobenzene	50.0	48.2		ug/L		96	80 - 120
1,4-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 120
Dichlorodifluoromethane	50.0	48.5		ug/L		97	47 - 155
1,1-Dichloroethane	50.0	51.6		ug/L		103	80 - 120
1,2-Dichloroethane	50.0	52.8		ug/L		106	80 - 120
1,1-Dichloroethene	50.0	53.9		ug/L		108	76 - 120
1,2-Dichloropropane	50.0	51.5		ug/L		103	80 - 120
1,3-Dichloropropane	50.0	52.7		ug/L		105	80 - 120
2,2-Dichloropropane	50.0	60.9		ug/L		122	76 - 126
1,1-Dichloropropene	50.0	51.2		ug/L		102	80 - 120
Ethylbenzene	50.0	48.8		ug/L		98	80 - 120
Hexachlorobutadiene	50.0	61.3		ug/L		123	60 - 140
2-Hexanone	250	255		ug/L		102	74 - 127
Iodomethane	50.0	57.4		ug/L		115	52 - 142
Isopropylbenzene	50.0	50.7		ug/L		101	80 - 120
Methylene Chloride	50.0	52.5		ug/L		105	80 - 120
4-Methyl-2-pentanone	250	248		ug/L		99	76 - 124
Methyl tert-butyl ether	50.0	55.0		ug/L		110	80 - 120
m-Xylene & p-Xylene	50.0	49.9		ug/L		100	80 - 120
Naphthalene	50.0	54.1		ug/L		108	59 - 140
n-Butylbenzene	50.0	50.9		ug/L		102	80 - 120
N-Propylbenzene	50.0	50.6		ug/L		101	80 - 120
o-Xylene	50.0	49.9		ug/L		100	80 - 120
p-Isopropyltoluene	50.0	50.4		ug/L		101	80 - 120
sec-Butylbenzene	50.0	50.7		ug/L		101	80 - 120
Styrene	50.0	51.6		ug/L		103	80 - 120
tert-Butylbenzene	50.0	50.2		ug/L		100	80 - 121
1,1,1,2-Tetrachloroethane	50.0	50.8		ug/L		102	80 - 121
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/L		104	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCS 680-570979/4

Matrix: Water

Analysis Batch: 570979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethylene	50.0	56.4		ug/L		113	80 - 121
Toluene	50.0	51.1		ug/L		102	80 - 113
trans-1,4-Dichloro-2-butene	50.0	54.6		ug/L		109	68 - 125
trans-1,2-Dichloroethene	50.0	55.6		ug/L		111	80 - 120
trans-1,3-Dichloropropene	50.0	51.3		ug/L		103	80 - 120
1,2,3-Trichlorobenzene	50.0	58.1		ug/L		116	61 - 141
1,2,4-Trichlorobenzene	50.0	56.8		ug/L		114	68 - 128
1,1,1-Trichloroethane	50.0	52.9		ug/L		106	80 - 120
1,1,2-Trichloroethane	50.0	53.5		ug/L		107	80 - 120
Trichloroethene	50.0	52.4		ug/L		105	80 - 120
Trichlorofluoromethane	50.0	53.5		ug/L		107	60 - 141
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.9		ug/L		114	79 - 124
1,2,4-Trimethylbenzene	50.0	50.8		ug/L		102	80 - 120
1,3,5-Trimethylbenzene	50.0	50.9		ug/L		102	80 - 120
Vinyl acetate	100	148 *		ug/L		148	67 - 135
Vinyl chloride	50.0	51.6		ug/L		103	71 - 128
Xylenes, Total	100	99.8		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	105		80 - 122
1,2-Dichloroethane-d4 (Surr)	105		73 - 131
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: LCSD 680-570979/5

Matrix: Water

Analysis Batch: 570979

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	232		ug/L		93	70 - 135	9	30
Acrylonitrile	500	500		ug/L		100	80 - 123	6	20
Benzene	50.0	48.6		ug/L		97	80 - 120	3	20
Bromobenzene	50.0	53.0		ug/L		106	80 - 121	2	20
Bromochloromethane	50.0	50.9		ug/L		102	80 - 120	3	20
Bromodichloromethane	50.0	53.8		ug/L		108	80 - 120	3	20
Bromoform	50.0	54.9		ug/L		110	74 - 126	1	20
Bromomethane	50.0	42.6		ug/L		85	62 - 130	2	20
2-Butanone (MEK)	250	248		ug/L		99	80 - 131	1	20
Carbon disulfide	50.0	49.4		ug/L		99	80 - 120	8	20
Carbon tetrachloride	50.0	51.1		ug/L		102	76 - 123	6	20
Chlorobenzene	50.0	49.4		ug/L		99	80 - 120	0	20
Chloroethane	50.0	40.4		ug/L		81	66 - 135	2	20
Chloroform	50.0	50.3		ug/L		101	80 - 120	3	20
Chloromethane	50.0	46.8		ug/L		94	69 - 131	6	30
2-Chlorotoluene	50.0	50.8		ug/L		102	80 - 120	3	20
4-Chlorotoluene	50.0	51.7		ug/L		103	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	80 - 120	3	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCSD 680-570979/5

Matrix: Water

Analysis Batch: 570979

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
cis-1,3-Dichloropropene	50.0	53.4		ug/L		107	80 - 120	1	20
Dibromochloromethane	50.0	54.2		ug/L		108	80 - 121	5	20
1,2-Dibromo-3-Chloropropane	50.0	52.4		ug/L		105	71 - 134	5	20
1,2-Dibromoethane	50.0	53.3		ug/L		107	80 - 120	3	20
Dibromomethane	50.0	52.4		ug/L		105	80 - 120	0	20
1,2-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 120	1	20
1,3-Dichlorobenzene	50.0	47.6		ug/L		95	80 - 120	1	20
1,4-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 120	0	20
Dichlorodifluoromethane	50.0	44.3		ug/L		89	47 - 155	9	40
1,1-Dichloroethane	50.0	48.5		ug/L		97	80 - 120	6	20
1,2-Dichloroethane	50.0	51.6		ug/L		103	80 - 120	2	50
1,1-Dichloroethene	50.0	50.2		ug/L		100	76 - 120	7	20
1,2-Dichloropropane	50.0	51.2		ug/L		102	80 - 120	1	20
1,3-Dichloropropane	50.0	51.5		ug/L		103	80 - 120	2	20
2,2-Dichloropropane	50.0	57.6		ug/L		115	76 - 126	6	20
1,1-Dichloropropene	50.0	49.3		ug/L		99	80 - 120	4	20
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120	2	20
Hexachlorobutadiene	50.0	59.9		ug/L		120	60 - 140	2	20
2-Hexanone	250	253		ug/L		101	74 - 127	1	20
Iodomethane	50.0	51.8		ug/L		104	52 - 142	10	30
Isopropylbenzene	50.0	51.5		ug/L		103	80 - 120	1	20
Methylene Chloride	50.0	48.3		ug/L		97	80 - 120	8	20
4-Methyl-2-pentanone	250	247		ug/L		99	76 - 124	0	20
Methyl tert-butyl ether	50.0	51.2		ug/L		102	80 - 120	7	20
m-Xylene & p-Xylene	50.0	50.0		ug/L		100	80 - 120	0	20
Naphthalene	50.0	54.4		ug/L		109	59 - 140	1	20
n-Butylbenzene	50.0	51.3		ug/L		103	80 - 120	1	20
N-Propylbenzene	50.0	52.0		ug/L		104	80 - 120	3	20
o-Xylene	50.0	50.9		ug/L		102	80 - 120	2	30
p-Isopropyltoluene	50.0	49.9		ug/L		100	80 - 120	1	20
sec-Butylbenzene	50.0	52.2		ug/L		104	80 - 120	3	20
Styrene	50.0	53.0		ug/L		106	80 - 120	3	20
tert-Butylbenzene	50.0	51.2		ug/L		102	80 - 121	2	20
1,1,1,2-Tetrachloroethane	50.0	50.8		ug/L		102	80 - 121	0	20
1,1,2,2-Tetrachloroethane	50.0	53.5		ug/L		107	80 - 120	3	20
Tetrachloroethylene	50.0	54.0		ug/L		108	80 - 121	4	20
Toluene	50.0	51.7		ug/L		103	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	56.3		ug/L		113	68 - 125	3	30
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	80 - 120	7	20
trans-1,3-Dichloropropene	50.0	51.5		ug/L		103	80 - 120	0	30
1,2,3-Trichlorobenzene	50.0	58.1		ug/L		116	61 - 141	0	20
1,2,4-Trichlorobenzene	50.0	56.3		ug/L		113	68 - 128	1	20
1,1,1-Trichloroethane	50.0	50.2		ug/L		100	80 - 120	5	20
1,1,2-Trichloroethane	50.0	52.4		ug/L		105	80 - 120	2	20
Trichloroethene	50.0	51.2		ug/L		102	80 - 120	2	20
Trichlorofluoromethane	50.0	48.0		ug/L		96	60 - 141	11	20
1,2,3-Trichloropropane	50.0	52.4		ug/L		105	80 - 123	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.6		ug/L		105	79 - 124	8	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCSD 680-570979/5

Matrix: Water

Analysis Batch: 570979

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
1,2,4-Trimethylbenzene	50.0	52.1		ug/L		104	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	52.4		ug/L		105	80 - 120	3	20
Vinyl acetate	100	137	*	ug/L		137	67 - 135	7	20
Vinyl chloride	50.0	48.4		ug/L		97	71 - 128	6	20
Xylenes, Total	100	101		ug/L		101	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	102		80 - 122
1,2-Dichloroethane-d4 (Surr)	100		73 - 131
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: MB 680-571246/10

Matrix: Water

Analysis Batch: 571246

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/22/19 00:25	1
Acrylonitrile	10	U	20	10	ug/L			05/22/19 00:25	1
Benzene	0.43	U	1.0	0.43	ug/L			05/22/19 00:25	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/22/19 00:25	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/22/19 00:25	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/22/19 00:25	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/22/19 00:25	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/22/19 00:25	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/22/19 00:25	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/22/19 00:25	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/22/19 00:25	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/22/19 00:25	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/22/19 00:25	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/22/19 00:25	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/22/19 00:25	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/22/19 00:25	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/22/19 00:25	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/22/19 00:25	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/22/19 00:25	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/22/19 00:25	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/22/19 00:25	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/22/19 00:25	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/22/19 00:25	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/22/19 00:25	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/22/19 00:25	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/22/19 00:25	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/22/19 00:25	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/22/19 00:25	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/22/19 00:25	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: MB 680-571246/10

Matrix: Water

Analysis Batch: 571246

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/22/19 00:25	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/22/19 00:25	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/22/19 00:25	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/22/19 00:25	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/22/19 00:25	1
Iodomethane	5.0	U	10	5.0	ug/L			05/22/19 00:25	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/22/19 00:25	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/22/19 00:25	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/22/19 00:25	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/22/19 00:25	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 00:25	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/22/19 00:25	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/22/19 00:25	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/22/19 00:25	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/22/19 00:25	1
Styrene	0.27	U	1.0	0.27	ug/L			05/22/19 00:25	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/22/19 00:25	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 00:25	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/22/19 00:25	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/22/19 00:25	1
Toluene	0.48	U	1.0	0.48	ug/L			05/22/19 00:25	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/22/19 00:25	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/22/19 00:25	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/22/19 00:25	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 00:25	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/22/19 00:25	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/22/19 00:25	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/22/19 00:25	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/22/19 00:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/22/19 00:25	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 00:25	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/22/19 00:25	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/22/19 00:25	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/22/19 00:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/22/19 00:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/22/19 00:25	1
Dibromofluoromethane (Surr)	102		80 - 122		05/22/19 00:25	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/22/19 00:25	1
Toluene-d8 (Surr)	102		80 - 120		05/22/19 00:25	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCS 680-571246/5

Matrix: Water

Analysis Batch: 571246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	263		ug/L		105	70 - 135
Acrylonitrile	500	508		ug/L		102	80 - 123
Benzene	50.0	49.6		ug/L		99	80 - 120
Bromobenzene	50.0	51.3		ug/L		103	80 - 121
Bromochloromethane	50.0	51.0		ug/L		102	80 - 120
Bromodichloromethane	50.0	53.8		ug/L		108	80 - 120
Bromoform	50.0	54.6		ug/L		109	74 - 126
Bromomethane	50.0	38.7		ug/L		77	62 - 130
2-Butanone (MEK)	250	281		ug/L		112	80 - 131
Carbon disulfide	50.0	48.2		ug/L		96	80 - 120
Carbon tetrachloride	50.0	51.9		ug/L		104	76 - 123
Chlorobenzene	50.0	50.2		ug/L		100	80 - 120
Chloroethane	50.0	48.4		ug/L		97	66 - 135
Chloroform	50.0	53.0		ug/L		106	80 - 120
Chloromethane	50.0	45.5		ug/L		91	69 - 131
2-Chlorotoluene	50.0	49.9		ug/L		100	80 - 120
4-Chlorotoluene	50.0	49.1		ug/L		98	80 - 120
cis-1,2-Dichloroethene	50.0	49.3		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	51.8		ug/L		104	80 - 120
Dibromochloromethane	50.0	54.7		ug/L		109	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	55.7		ug/L		111	71 - 134
1,2-Dibromoethane	50.0	53.1		ug/L		106	80 - 120
Dibromomethane	50.0	52.6		ug/L		105	80 - 120
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120
1,3-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120
1,4-Dichlorobenzene	50.0	48.6		ug/L		97	80 - 120
Dichlorodifluoromethane	50.0	38.6		ug/L		77	47 - 155
1,1-Dichloroethane	50.0	50.3		ug/L		101	80 - 120
1,2-Dichloroethane	50.0	52.1		ug/L		104	80 - 120
1,1-Dichloroethene	50.0	50.2		ug/L		100	76 - 120
1,2-Dichloropropane	50.0	49.9		ug/L		100	80 - 120
1,3-Dichloropropane	50.0	52.0		ug/L		104	80 - 120
2,2-Dichloropropane	50.0	41.0		ug/L		82	76 - 126
1,1-Dichloropropene	50.0	48.4		ug/L		97	80 - 120
Ethylbenzene	50.0	49.8		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	45.2		ug/L		90	60 - 140
2-Hexanone	250	265		ug/L		106	74 - 127
Iodomethane	50.0	48.6		ug/L		97	52 - 142
Isopropylbenzene	50.0	50.9		ug/L		102	80 - 120
Methylene Chloride	50.0	49.3		ug/L		99	80 - 120
4-Methyl-2-pentanone	250	268		ug/L		107	76 - 124
Methyl tert-butyl ether	50.0	52.0		ug/L		104	80 - 120
m-Xylene & p-Xylene	50.0	49.5		ug/L		99	80 - 120
Naphthalene	50.0	51.8		ug/L		104	59 - 140
n-Butylbenzene	50.0	45.7		ug/L		91	80 - 120
N-Propylbenzene	50.0	49.0		ug/L		98	80 - 120
o-Xylene	50.0	50.1		ug/L		100	80 - 120
p-Isopropyltoluene	50.0	47.7		ug/L		95	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCS 680-571246/5

Matrix: Water

Analysis Batch: 571246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	50.0	48.9		ug/L		98	80 - 120
Styrene	50.0	51.1		ug/L		102	80 - 120
tert-Butylbenzene	50.0	50.4		ug/L		101	80 - 121
1,1,1,2-Tetrachloroethane	50.0	54.4		ug/L		109	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.7		ug/L		101	80 - 120
Tetrachloroethylene	50.0	50.3		ug/L		101	80 - 121
Toluene	50.0	51.5		ug/L		103	80 - 113
trans-1,4-Dichloro-2-butene	50.0	50.6		ug/L		101	68 - 125
trans-1,2-Dichloroethene	50.0	50.0		ug/L		100	80 - 120
trans-1,3-Dichloropropene	50.0	51.8		ug/L		104	80 - 120
1,2,3-Trichlorobenzene	50.0	49.2		ug/L		98	61 - 141
1,2,4-Trichlorobenzene	50.0	47.6		ug/L		95	68 - 128
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	80 - 120
Trichloroethene	50.0	51.3		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	48.2		ug/L		96	60 - 141
1,2,3-Trichloropropane	50.0	54.0		ug/L		108	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.3		ug/L		91	79 - 124
1,2,4-Trimethylbenzene	50.0	49.1		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	50.0	49.3		ug/L		99	80 - 120
Vinyl acetate	100	87.6		ug/L		88	67 - 135
Vinyl chloride	50.0	45.6		ug/L		91	71 - 128
Xylenes, Total	100	99.6		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	102		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 680-571246/6

Matrix: Water

Analysis Batch: 571246

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	248		ug/L		99	70 - 135	6	30
Acrylonitrile	500	481		ug/L		96	80 - 123	5	20
Benzene	50.0	49.9		ug/L		100	80 - 120	1	20
Bromobenzene	50.0	50.4		ug/L		101	80 - 121	2	20
Bromochloromethane	50.0	49.9		ug/L		100	80 - 120	2	20
Bromodichloromethane	50.0	52.1		ug/L		104	80 - 120	3	20
Bromoform	50.0	53.2		ug/L		106	74 - 126	3	20
Bromomethane	50.0	40.3		ug/L		81	62 - 130	4	20
2-Butanone (MEK)	250	267		ug/L		107	80 - 131	5	20
Carbon disulfide	50.0	48.3		ug/L		97	80 - 120	0	20
Carbon tetrachloride	50.0	53.1		ug/L		106	76 - 123	2	20
Chlorobenzene	50.0	50.0		ug/L		100	80 - 120	0	20
Chloroethane	50.0	48.4		ug/L		97	66 - 135	0	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCSD 680-571246/6

Matrix: Water

Analysis Batch: 571246

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
Chloroform	50.0	51.7		ug/L		103	80 - 120	3	20
Chloromethane	50.0	45.9		ug/L		92	69 - 131	1	30
2-Chlorotoluene	50.0	49.6		ug/L		99	80 - 120	0	20
4-Chlorotoluene	50.0	49.1		ug/L		98	80 - 120	0	20
cis-1,2-Dichloroethene	50.0	48.4		ug/L		97	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	51.1		ug/L		102	80 - 120	1	20
Dibromochloromethane	50.0	53.4		ug/L		107	80 - 121	2	20
1,2-Dibromo-3-Chloropropane	50.0	53.4		ug/L		107	71 - 134	4	20
1,2-Dibromoethane	50.0	50.7		ug/L		101	80 - 120	5	20
Dibromomethane	50.0	50.3		ug/L		101	80 - 120	4	20
1,2-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120	1	20
1,3-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 120	1	20
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120	0	20
Dichlorodifluoromethane	50.0	43.1		ug/L		86	47 - 155	11	40
1,1-Dichloroethane	50.0	50.6		ug/L		101	80 - 120	1	20
1,2-Dichloroethane	50.0	50.7		ug/L		101	80 - 120	3	50
1,1-Dichloroethene	50.0	51.8		ug/L		104	76 - 120	3	20
1,2-Dichloropropane	50.0	49.0		ug/L		98	80 - 120	2	20
1,3-Dichloropropane	50.0	50.6		ug/L		101	80 - 120	3	20
2,2-Dichloropropane	50.0	40.9		ug/L		82	76 - 126	0	20
1,1-Dichloropropene	50.0	50.1		ug/L		100	80 - 120	3	20
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120	0	20
Hexachlorobutadiene	50.0	48.2		ug/L		96	60 - 140	6	20
2-Hexanone	250	249		ug/L		99	74 - 127	6	20
Iodomethane	50.0	48.7		ug/L		97	52 - 142	0	30
Isopropylbenzene	50.0	50.8		ug/L		102	80 - 120	0	20
Methylene Chloride	50.0	47.8		ug/L		96	80 - 120	3	20
4-Methyl-2-pentanone	250	253		ug/L		101	76 - 124	6	20
Methyl tert-butyl ether	50.0	50.0		ug/L		100	80 - 120	4	20
m-Xylene & p-Xylene	50.0	49.6		ug/L		99	80 - 120	0	20
Naphthalene	50.0	51.5		ug/L		103	59 - 140	1	20
n-Butylbenzene	50.0	47.8		ug/L		96	80 - 120	5	20
N-Propylbenzene	50.0	49.6		ug/L		99	80 - 120	1	20
o-Xylene	50.0	50.1		ug/L		100	80 - 120	0	30
p-Isopropyltoluene	50.0	49.6		ug/L		99	80 - 120	4	20
sec-Butylbenzene	50.0	50.4		ug/L		101	80 - 120	3	20
Styrene	50.0	50.5		ug/L		101	80 - 120	1	20
tert-Butylbenzene	50.0	50.3		ug/L		101	80 - 121	0	20
1,1,1,2-Tetrachloroethane	50.0	52.0		ug/L		104	80 - 121	5	20
1,1,1,2,2-Tetrachloroethane	50.0	48.0		ug/L		96	80 - 120	5	20
Tetrachloroethylene	50.0	51.8		ug/L		104	80 - 121	3	20
Toluene	50.0	51.0		ug/L		102	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	48.7		ug/L		97	68 - 125	4	30
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 120	0	20
trans-1,3-Dichloropropene	50.0	49.8		ug/L		100	80 - 120	4	30
1,2,3-Trichlorobenzene	50.0	49.6		ug/L		99	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	48.0		ug/L		96	68 - 128	1	20
1,1,1-Trichloroethane	50.0	51.6		ug/L		103	80 - 120	1	20
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	80 - 120	2	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: LCSD 680-571246/6

Matrix: Water

Analysis Batch: 571246

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
Trichloroethene	50.0	52.8		ug/L		106	80 - 120	3	20
Trichlorofluoromethane	50.0	51.7		ug/L		103	60 - 141	7	20
1,2,3-Trichloropropane	50.0	51.9		ug/L		104	80 - 123	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9		ug/L		102	79 - 124	12	20
1,2,4-Trimethylbenzene	50.0	49.9		ug/L		100	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	80 - 120	1	20
Vinyl acetate	100	83.9		ug/L		84	67 - 135	4	20
Vinyl chloride	50.0	46.6		ug/L		93	71 - 128	2	20
Xylenes, Total	100	99.7		ug/L		100	80 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	99		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-571368/13

Matrix: Water

Analysis Batch: 571368

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			05/22/19 15:36	1

Lab Sample ID: LCS 680-571368/14

Matrix: Water

Analysis Batch: 571368

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	10.6		mg/L		106	87 - 112

Lab Sample ID: LCSD 680-571368/15

Matrix: Water

Analysis Batch: 571368

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	10.7		mg/L		107	87 - 112	1	15

Lab Sample ID: 680-168798-2 DU

Matrix: Water

Analysis Batch: 571368

Client Sample ID: OLF-G35

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	12		12.1		mg/L		2	15

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

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

Lab Sample ID: 680-168798-11 DU

Matrix: Water

Analysis Batch: 571368

Client Sample ID: DUP #320

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	6.9		6.91		mg/L		0.07	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-571070/1-B

Matrix: Water

Analysis Batch: 571174

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 571071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		05/20/19 11:07	05/20/19 22:34	1

Lab Sample ID: LCS 680-571070/2-B

Matrix: Water

Analysis Batch: 571174

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 571071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	5000	4820		ug/L		96	80 - 120

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

GC/MS VOA

Analysis Batch: 570940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168798-5	OLF-G71 Port 4	Total/NA	Water	8260B	
MB 680-570940/9	Method Blank	Total/NA	Water	8260B	
LCS 680-570940/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-570940/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 570979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168798-6	OLF-G71 Port 2	Total/NA	Water	8260B	
680-168798-7	DUP #321	Total/NA	Water	8260B	
680-168798-8	OLF-G71 Port 5	Total/NA	Water	8260B	
680-168798-9	OLF-G71 Port 1	Total/NA	Water	8260B	
680-168798-10	OLF-G71 Port 3	Total/NA	Water	8260B	
680-168798-11	DUP #320	Total/NA	Water	8260B	
MB 680-570979/9	Method Blank	Total/NA	Water	8260B	
LCS 680-570979/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-570979/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 571246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168798-1	OLF-G48	Total/NA	Water	8260B	
680-168798-2	OLF-G35	Total/NA	Water	8260B	
680-168798-3	OLF-G23	Total/NA	Water	8260B	
680-168798-4	OLF-G24	Total/NA	Water	8260B	
680-168798-12	TB#529	Total/NA	Water	8260B	
MB 680-571246/10	Method Blank	Total/NA	Water	8260B	
LCS 680-571246/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-571246/6	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 571368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168798-2	OLF-G35	Total/NA	Water	9056A	
680-168798-3	OLF-G23	Total/NA	Water	9056A	
680-168798-4	OLF-G24	Total/NA	Water	9056A	
680-168798-5	OLF-G71 Port 4	Total/NA	Water	9056A	
680-168798-6	OLF-G71 Port 2	Total/NA	Water	9056A	
680-168798-7	DUP #321	Total/NA	Water	9056A	
680-168798-8	OLF-G71 Port 5	Total/NA	Water	9056A	
680-168798-9	OLF-G71 Port 1	Total/NA	Water	9056A	
680-168798-10	OLF-G71 Port 3	Total/NA	Water	9056A	
680-168798-11	DUP #320	Total/NA	Water	9056A	
MB 680-571368/13	Method Blank	Total/NA	Water	9056A	
LCS 680-571368/14	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-571368/15	Lab Control Sample Dup	Total/NA	Water	9056A	
680-168798-2 DU	OLF-G35	Total/NA	Water	9056A	
680-168798-11 DU	DUP #320	Total/NA	Water	9056A	

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Metals

Filtration Batch: 571070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168798-2	OLF-G35	Dissolved	Water	FILTRATION	
680-168798-3	OLF-G23	Dissolved	Water	FILTRATION	
680-168798-4	OLF-G24	Dissolved	Water	FILTRATION	
680-168798-5	OLF-G71 Port 4	Dissolved	Water	FILTRATION	
680-168798-6	OLF-G71 Port 2	Dissolved	Water	FILTRATION	
680-168798-7	DUP #321	Dissolved	Water	FILTRATION	
680-168798-8	OLF-G71 Port 5	Dissolved	Water	FILTRATION	
680-168798-9	OLF-G71 Port 1	Dissolved	Water	FILTRATION	
680-168798-10	OLF-G71 Port 3	Dissolved	Water	FILTRATION	
680-168798-11	DUP #320	Dissolved	Water	FILTRATION	
MB 680-571070/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-571070/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	

Prep Batch: 571071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168798-2	OLF-G35	Dissolved	Water	3005A	571070
680-168798-3	OLF-G23	Dissolved	Water	3005A	571070
680-168798-4	OLF-G24	Dissolved	Water	3005A	571070
680-168798-5	OLF-G71 Port 4	Dissolved	Water	3005A	571070
680-168798-6	OLF-G71 Port 2	Dissolved	Water	3005A	571070
680-168798-7	DUP #321	Dissolved	Water	3005A	571070
680-168798-8	OLF-G71 Port 5	Dissolved	Water	3005A	571070
680-168798-9	OLF-G71 Port 1	Dissolved	Water	3005A	571070
680-168798-10	OLF-G71 Port 3	Dissolved	Water	3005A	571070
680-168798-11	DUP #320	Dissolved	Water	3005A	571070
MB 680-571070/1-B	Method Blank	Dissolved	Water	3005A	571070
LCS 680-571070/2-B	Lab Control Sample	Dissolved	Water	3005A	571070

Analysis Batch: 571174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168798-2	OLF-G35	Dissolved	Water	6010C	571071
680-168798-3	OLF-G23	Dissolved	Water	6010C	571071
680-168798-4	OLF-G24	Dissolved	Water	6010C	571071
680-168798-5	OLF-G71 Port 4	Dissolved	Water	6010C	571071
680-168798-6	OLF-G71 Port 2	Dissolved	Water	6010C	571071
680-168798-7	DUP #321	Dissolved	Water	6010C	571071
680-168798-8	OLF-G71 Port 5	Dissolved	Water	6010C	571071
680-168798-9	OLF-G71 Port 1	Dissolved	Water	6010C	571071
680-168798-10	OLF-G71 Port 3	Dissolved	Water	6010C	571071
680-168798-11	DUP #320	Dissolved	Water	6010C	571071
MB 680-571070/1-B	Method Blank	Dissolved	Water	6010C	571071
LCS 680-571070/2-B	Lab Control Sample	Dissolved	Water	6010C	571071

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G48

Lab Sample ID: 680-168798-1

Date Collected: 05/08/19 11:31

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571246	05/22/19 07:23	Y1S	TAL SAV
Instrument ID: CMSP2										

Client Sample ID: OLF-G35

Lab Sample ID: 680-168798-2

Date Collected: 05/08/19 14:21

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571246	05/22/19 07:46	Y1S	TAL SAV
Instrument ID: CMSP2										
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 18:18	UI	TAL SAV
Instrument ID: CICK										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/20/19 23:59	BWR	TAL SAV
Instrument ID: ICPE										

Client Sample ID: OLF-G23

Lab Sample ID: 680-168798-3

Date Collected: 05/08/19 11:06

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	571246	05/22/19 08:09	Y1S	TAL SAV
Instrument ID: CMSP2										
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 18:44	UI	TAL SAV
Instrument ID: CICK										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/20/19 23:54	BWR	TAL SAV
Instrument ID: ICPE										

Client Sample ID: OLF-G24

Lab Sample ID: 680-168798-4

Date Collected: 05/08/19 12:56

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571246	05/22/19 07:00	Y1S	TAL SAV
Instrument ID: CMSP2										
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 18:56	UI	TAL SAV
Instrument ID: CICK										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/20/19 23:35	BWR	TAL SAV
Instrument ID: ICPE										

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G71 Port 4

Lab Sample ID: 680-168798-5

Date Collected: 05/06/19 12:00

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570940	05/18/19 19:09	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 19:09	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/20/19 23:07	BWR	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G71 Port 2

Lab Sample ID: 680-168798-6

Date Collected: 05/06/19 11:30

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570979	05/19/19 17:00	SMP	TAL SAV
		Instrument ID: CMSC								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 19:22	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/20/19 23:40	BWR	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: DUP #321

Lab Sample ID: 680-168798-7

Date Collected: 05/06/19 00:00

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570979	05/19/19 17:21	SMP	TAL SAV
		Instrument ID: CMSC								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 19:34	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/20/19 23:45	BWR	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G71 Port 5

Lab Sample ID: 680-168798-8

Date Collected: 05/06/19 12:10

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570979	05/19/19 17:42	SMP	TAL SAV
		Instrument ID: CMSC								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 19:47	UI	TAL SAV
		Instrument ID: CICK								

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: OLF-G71 Port 5

Lab Sample ID: 680-168798-8

Date Collected: 05/06/19 12:10

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/20/19 23:21	BWR	TAL SAV
Instrument ID: ICPE										

Client Sample ID: OLF-G71 Port 1

Lab Sample ID: 680-168798-9

Date Collected: 05/06/19 11:00

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570979	05/19/19 18:03	SMP	TAL SAV
Instrument ID: CMSC										
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 20:00	UI	TAL SAV
Instrument ID: CICK										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/20/19 23:49	BWR	TAL SAV
Instrument ID: ICPE										

Client Sample ID: OLF-G71 Port 3

Lab Sample ID: 680-168798-10

Date Collected: 05/06/19 11:45

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570979	05/19/19 18:24	SMP	TAL SAV
Instrument ID: CMSC										
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 20:12	UI	TAL SAV
Instrument ID: CICK										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/20/19 23:30	BWR	TAL SAV
Instrument ID: ICPE										

Client Sample ID: DUP #320

Lab Sample ID: 680-168798-11

Date Collected: 05/06/19 00:00

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570979	05/19/19 18:45	SMP	TAL SAV
Instrument ID: CMSC										
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 21:28	UI	TAL SAV
Instrument ID: CICK										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/20/19 23:26	BWR	TAL SAV
Instrument ID: ICPE										

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Client Sample ID: TB#529

Lab Sample ID: 680-168798-12

Date Collected: 05/08/19 15:15

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571246	05/22/19 01:34	Y1S	TAL SAV
Instrument ID: CMSP2										

Laboratory References:

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

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Laboratory: Eurofins TestAmerica, Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-19 *
Alaska	State Program	10		06-30-19 *
Alaska (UST)	State Program	10	UST-104	09-22-19
ANAB	DoD		L2463	09-22-19
ANAB	ISO/IEC 17025		L2463.01	09-22-19
Arizona	State Program	9	AZ0808	12-14-19
Arkansas DEQ	State Program	6	88-0692	02-01-20
California	State Program	9	2939	06-30-19 *
Colorado	State Program	8	N/A	12-31-19
Connecticut	State Program	1	PH-0161	03-31-21
GA Dept. of Agriculture	State Program	4	N/A	06-12-19
Georgia	State Program	4	N/A	06-30-19 *
Georgia	State Program	4	803	06-30-19 *
Guam	State Program	9	15-005r	04-17-20
Hawaii	State Program	9	N/A	06-30-19
Illinois	NELAP	5	200022	11-30-19
Indiana	State Program	5	N/A	06-30-19 *
Iowa	State Program	7	353	06-30-19 *
Kentucky (DW)	State Program	4	90084	12-31-19
Kentucky (UST)	State Program	4	18	06-30-19
Kentucky (WW)	State Program	4	90084	12-31-19
Louisiana	NELAP	6	30690	06-30-19
Louisiana (DW)	NELAP	6	LA160019	12-31-19
Maine	State Program	1	GA00006	09-25-20
Maryland	State Program	3	250	12-31-19
Massachusetts	State Program	1	M-GA006	06-30-19 *
Michigan	State Program	5	9925	06-30-19
Mississippi	State Program	4	N/A	06-30-19 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-19 *
New Jersey	NELAP	2	GA769	06-30-19 *
New Mexico	State Program	6	N/A	06-30-19 *
New York	NELAP	2	10842	04-01-20
North Carolina (DW)	State Program	4	13701	07-31-19
North Carolina (WW/SW)	State Program	4	269	12-31-19
Oklahoma	State Program	6	9984	08-31-19
Pennsylvania	NELAP	3	68-00474	06-30-19 *
Puerto Rico	State Program	2	GA00006	01-01-20
South Carolina	State Program	4	98001	06-30-19 *
Tennessee	State Program	4	TN02961	06-30-19 *
Texas	NELAP	6	T104704185-16-9	11-30-19
Texas (DW)	State Program	1	T104704185	06-30-19 *
US Fish & Wildlife	Federal		LE058448-0	07-31-19
Virginia	NELAP	3	460161	06-14-19 *
Washington	State Program	10	C805	06-10-19 *
West Virginia (DW)	State Program	3	9950C	12-31-19
West Virginia DEP	State Program	3	094	06-30-19 *
Wisconsin	State Program	5	999819810	08-31-19
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Savannah

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168798-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
9056A	Anions, Ion Chromatography	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
FILTRATION	Sample Filtration	None	TAL SAV

Protocol References:

None = None

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

Laboratory References:

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

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
Lab Contact Jon Lawhon; Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246

Project Parcel 80(6), Landfill 3
Task # 18.094.19-05.2.500

Lab contract:

Cooler ID 5780
Page 1 of 1
Cooler 1 of 2

Samplers Signature

Station ID	QC Code	Station Code	Matrix	Sample Method
OLF-G48	NS	MW	Water	BP
OLF-G25	NS	MW	Water	BP
OLF-G23	NS	MW	Water	BP
OLF-G24	NS	MW	Water	BP
OLF-G71 Part 4	NS	FLUTE	water	G
OLF-G71 Part 2	NS	FLUTE	water	G
DUP #321	FD	FD	water	G
OLF-G71 Part 5	NS	FLUTE	water	G
OLF-G71 Part 1	NS	FLUTE	water	G
OLF-G71 Part 3	NS	FLUTE	water	G
DUP #320	FD	FD	water	G
TB #530 529 JT	TB	TB	water	G
5/8/19				

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 = Surp, WS = Waste Solid/Soil, WW = Waste Water
Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB tag, PP = peristaltic pump, SU = submersible pump
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature):

Date/Time: 5/8/19 1600

Relinquished by (Signature):

Date/Time:

Received by (Signature):

FedEx

Date/Time:

Received by (Signature):

Date/Time:

DUP # 320 -OLF-G71 Part 2
DUP # 321 -OLF-G71 Part 1

5/8/19 09:32

3.7°C (CF) 3.7°C

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-168798-1

Login Number: 168798

List Source: Eurofins TestAmerica, Savannah

List Number: 1

Creator: Banda, Christy S

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	

ANALYTICAL REPORT

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

Laboratory Job ID: 680-168800-1
Client Project/Site: Parcel 80(6), Landfill 3

For:
Matrix Environmental Services, LLC
1601 Blake Street
Suite 200
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt



Authorized for release by:
5/29/2019 7:41:23 AM
Kathryn Smith, Manager of Project Management
(912)250-0275
kathy.smith@testamericainc.com

Designee for
Jon Lawhon, Project Manager I
(912)250-0283
jon.lawhon@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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 80(6), Landfill 3

Job ID: 680-168800-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-168800-1	OLF-G78	Water	05/06/19 12:46	05/09/19 09:32	
680-168800-2	OLF-G07	Water	05/07/19 10:31	05/09/19 09:32	
680-168800-3	OLF-G77	Water	05/06/19 14:06	05/09/19 09:32	
680-168800-4	OLF-G08	Water	05/07/19 15:26	05/09/19 09:32	
680-168800-5	OLF-G20	Water	05/07/19 13:46	05/09/19 09:32	
680-168800-6	DUP #323	Water	05/06/19 00:00	05/09/19 09:32	
680-168800-7	OLF-G06	Water	05/06/19 10:06	05/09/19 09:32	
680-168800-8	TB #530	Water	05/08/19 15:20	05/09/19 09:32	

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Job ID: 680-168800-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC
Project: Parcel 80(6), Landfill 3

Report Number: 680-168800-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 05/09/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OLF-G78 (680-168800-1), OLF-G07 (680-168800-2), OLF-G77 (680-168800-3), OLF-G20 (680-168800-5), DUP #323 (680-168800-6) and TB #530 (680-168800-8) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/19/2019, 05/20/2019, 05/21/2019 and 05/22/2019.

cis-1,2-Dichloroethene was detected in method blank MB 680-571152/9 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The continuing calibration verification (CCV) associated with batch 680-571004 recovered above the upper control limit for Carbon tetrachloride, Chlorodibromomethane, Dibromochloromethane and Bromoform. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-571004 recovered outside control limits for the following analyte(s): 1,2,3-Trichlorobenzene. 1,2,3-Trichlorobenzene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-571004 recovered outside control limits for the following analytes: Carbon tetrachloride, Dibromochloromethane, Chlorodibromomethane, 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,1,2-Tetrachloroethane, Bromoform and Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Samples OLF-G77 (680-168800-3)[10X] and DUP #323 (680-168800-6)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

DISSOLVED GASES

Samples OLF-G77 (680-168800-3) and DUP #323 (680-168800-6) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 05/16/2019.

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

METALS (ICP) - DISSOLVED

Samples OLF-G78 (680-168800-1), OLF-G07 (680-168800-2), OLF-G77 (680-168800-3), OLF-G08 (680-168800-4), OLF-G20 (680-168800-5), DUP #323 (680-168800-6) and OLF-G06 (680-168800-7) were analyzed for Metals (ICP) - Dissolved in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/20/2019 and analyzed on 05/20/2019 and 05/21/2019.

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Job ID: 680-168800-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples OLF-G78 (680-168800-1), OLF-G07 (680-168800-2), OLF-G77 (680-168800-3), OLF-G08 (680-168800-4), OLF-G20 (680-168800-5), DUP #323 (680-168800-6) and OLF-G06 (680-168800-7) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with SW 846 9056A. The samples were analyzed on 05/22/2019.

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

TOTAL ORGANIC CARBON

Samples OLF-G77 (680-168800-3) and DUP #323 (680-168800-6) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 05/16/2019.

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 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G78

Lab Sample ID: 680-168800-1

Date Collected: 05/06/19 12:46

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/19/19 18:17	1
Acrylonitrile	10	U	20	10	ug/L			05/19/19 18:17	1
Benzene	0.43	U	1.0	0.43	ug/L			05/19/19 18:17	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/19/19 18:17	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/19/19 18:17	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/19/19 18:17	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/19/19 18:17	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/19/19 18:17	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/19/19 18:17	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/19/19 18:17	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/19/19 18:17	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/19/19 18:17	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/19/19 18:17	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/19/19 18:17	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/19/19 18:17	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/19/19 18:17	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/19/19 18:17	1
cis-1,2-Dichloroethene	2.0		1.0	0.41	ug/L			05/19/19 18:17	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/19/19 18:17	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/19/19 18:17	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/19/19 18:17	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/19/19 18:17	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/19/19 18:17	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/19/19 18:17	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/19/19 18:17	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/19/19 18:17	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/19/19 18:17	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/19/19 18:17	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/19/19 18:17	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/19/19 18:17	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/19/19 18:17	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/19/19 18:17	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/19/19 18:17	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/19/19 18:17	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/19/19 18:17	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/19/19 18:17	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/19/19 18:17	1
Iodomethane	5.0	U	10	5.0	ug/L			05/19/19 18:17	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/19/19 18:17	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/19/19 18:17	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/19/19 18:17	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/19/19 18:17	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/19/19 18:17	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/19/19 18:17	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 18:17	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/19/19 18:17	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/19/19 18:17	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/19/19 18:17	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/19/19 18:17	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G78

Lab Sample ID: 680-168800-1

Date Collected: 05/06/19 12:46

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/19/19 18:17	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/19/19 18:17	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 18:17	1
1,1,2,2-Tetrachloroethane	9.8		1.0	0.62	ug/L			05/19/19 18:17	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/19/19 18:17	1
Toluene	0.48	U	1.0	0.48	ug/L			05/19/19 18:17	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/19/19 18:17	1
trans-1,2-Dichloroethene	0.63	J	1.0	0.37	ug/L			05/19/19 18:17	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/19/19 18:17	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 18:17	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 18:17	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 18:17	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/19/19 18:17	1
Trichloroethene	11		1.0	0.48	ug/L			05/19/19 18:17	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/19/19 18:17	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/19/19 18:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/19/19 18:17	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 18:17	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/19/19 18:17	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/19/19 18:17	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/19/19 18:17	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/19/19 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		05/19/19 18:17	1
Dibromofluoromethane (Surr)	102		80 - 122		05/19/19 18:17	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/19/19 18:17	1
Toluene-d8 (Surr)	100		80 - 120		05/19/19 18:17	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			05/22/19 21:53	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3700		1000	480	ug/L		05/20/19 11:07	05/21/19 00:27	1

Client Sample ID: OLF-G07

Lab Sample ID: 680-168800-2

Date Collected: 05/07/19 10:31

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/21/19 16:18	1
Acrylonitrile	10	U	20	10	ug/L			05/21/19 16:18	1
Benzene	0.43	U	1.0	0.43	ug/L			05/21/19 16:18	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/21/19 16:18	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/21/19 16:18	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/21/19 16:18	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/21/19 16:18	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/21/19 16:18	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G07

Lab Sample ID: 680-168800-2

Date Collected: 05/07/19 10:31

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/21/19 16:18	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/21/19 16:18	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/21/19 16:18	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/21/19 16:18	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/21/19 16:18	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/21/19 16:18	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/21/19 16:18	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/21/19 16:18	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/21/19 16:18	1
cis-1,2-Dichloroethene	6.6		1.0	0.41	ug/L			05/21/19 16:18	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/21/19 16:18	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/21/19 16:18	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/21/19 16:18	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/21/19 16:18	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/21/19 16:18	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/21/19 16:18	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/21/19 16:18	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/21/19 16:18	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/21/19 16:18	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/21/19 16:18	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/21/19 16:18	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/21/19 16:18	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/21/19 16:18	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/21/19 16:18	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/21/19 16:18	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/21/19 16:18	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/21/19 16:18	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/21/19 16:18	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/21/19 16:18	1
Iodomethane	5.0	U	10	5.0	ug/L			05/21/19 16:18	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/21/19 16:18	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/21/19 16:18	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/21/19 16:18	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/21/19 16:18	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/21/19 16:18	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/21/19 16:18	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/21/19 16:18	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/21/19 16:18	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/21/19 16:18	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/21/19 16:18	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/21/19 16:18	1
Styrene	0.27	U	1.0	0.27	ug/L			05/21/19 16:18	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/21/19 16:18	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/21/19 16:18	1
1,1,2,2-Tetrachloroethane	96		1.0	0.62	ug/L			05/21/19 16:18	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/21/19 16:18	1
Toluene	0.48	U	1.0	0.48	ug/L			05/21/19 16:18	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/21/19 16:18	1
trans-1,2-Dichloroethene	2.9		1.0	0.37	ug/L			05/21/19 16:18	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G07

Lab Sample ID: 680-168800-2

Date Collected: 05/07/19 10:31

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/21/19 16:18	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/21/19 16:18	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/21/19 16:18	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/21/19 16:18	1
1,1,2-Trichloroethane	1.2		1.0	0.33	ug/L			05/21/19 16:18	1
Trichloroethene	48		1.0	0.48	ug/L			05/21/19 16:18	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/21/19 16:18	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/21/19 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/21/19 16:18	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/21/19 16:18	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/21/19 16:18	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/21/19 16:18	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/21/19 16:18	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/21/19 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		05/21/19 16:18	1
Dibromofluoromethane (Surr)	101		80 - 122		05/21/19 16:18	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131		05/21/19 16:18	1
Toluene-d8 (Surr)	101		80 - 120		05/21/19 16:18	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.2		1.0	0.40	mg/L			05/22/19 17:40	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3800		1000	480	ug/L		05/20/19 11:07	05/20/19 22:43	1

Client Sample ID: OLF-G77

Lab Sample ID: 680-168800-3

Date Collected: 05/06/19 14:06

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/19/19 19:03	1
Acrylonitrile	10	U	20	10	ug/L			05/19/19 19:03	1
Benzene	0.43	U	1.0	0.43	ug/L			05/19/19 19:03	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/19/19 19:03	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/19/19 19:03	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/19/19 19:03	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/19/19 19:03	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/19/19 19:03	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/19/19 19:03	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/19/19 19:03	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/19/19 19:03	1
Chlorobenzene	21		1.0	0.26	ug/L			05/19/19 19:03	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/19/19 19:03	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/19/19 19:03	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/19/19 19:03	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/19/19 19:03	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G77

Lab Sample ID: 680-168800-3

Date Collected: 05/06/19 14:06

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/19/19 19:03	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/19/19 19:03	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/19/19 19:03	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/19/19 19:03	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/19/19 19:03	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/19/19 19:03	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/19/19 19:03	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/19/19 19:03	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/19/19 19:03	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/19/19 19:03	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/19/19 19:03	1
1,2-Dichloroethane	0.70	J	1.0	0.50	ug/L			05/19/19 19:03	1
1,1-Dichloroethene	0.79	J	1.0	0.36	ug/L			05/19/19 19:03	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/19/19 19:03	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/19/19 19:03	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/19/19 19:03	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/19/19 19:03	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/19/19 19:03	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/19/19 19:03	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/19/19 19:03	1
Iodomethane	5.0	U	10	5.0	ug/L			05/19/19 19:03	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/19/19 19:03	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/19/19 19:03	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/19/19 19:03	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/19/19 19:03	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/19/19 19:03	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/19/19 19:03	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 19:03	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/19/19 19:03	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/19/19 19:03	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/19/19 19:03	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/19/19 19:03	1
Styrene	0.27	U	1.0	0.27	ug/L			05/19/19 19:03	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/19/19 19:03	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 19:03	1
Tetrachloroethylene	6.7		1.0	0.74	ug/L			05/19/19 19:03	1
Toluene	0.48	U	1.0	0.48	ug/L			05/19/19 19:03	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/19/19 19:03	1
trans-1,2-Dichloroethene	110		1.0	0.37	ug/L			05/19/19 19:03	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/19/19 19:03	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 19:03	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 19:03	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 19:03	1
1,1,2-Trichloroethane	32		1.0	0.33	ug/L			05/19/19 19:03	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/19/19 19:03	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/19/19 19:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/19/19 19:03	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 19:03	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/19/19 19:03	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G77

Lab Sample ID: 680-168800-3

Date Collected: 05/06/19 14:06

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/19/19 19:03	1
Vinyl chloride	9.4		1.0	0.50	ug/L			05/19/19 19:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/19/19 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		05/19/19 19:03	1
Dibromofluoromethane (Surr)	102		80 - 122		05/19/19 19:03	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/19/19 19:03	1
Toluene-d8 (Surr)	103		80 - 120		05/19/19 19:03	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	350		10	4.1	ug/L			05/20/19 16:22	10
1,1,2,2-Tetrachloroethane	1200		10	6.2	ug/L			05/20/19 16:22	10
Trichloroethene	670		10	4.8	ug/L			05/20/19 16:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		05/20/19 16:22	10
Dibromofluoromethane (Surr)	96		80 - 122		05/20/19 16:22	10
1,2-Dichloroethane-d4 (Surr)	114		73 - 131		05/20/19 16:22	10
Toluene-d8 (Surr)	102		80 - 120		05/20/19 16:22	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.2		1.1	0.55	ug/L			05/16/19 16:44	1
Ethylene	0.50	U	1.0	0.50	ug/L			05/16/19 16:44	1
Methane	260		0.58	0.29	ug/L			05/16/19 16:44	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2.5		1.0	0.40	mg/L			05/22/19 22:06	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	13000		1000	480	ug/L		05/20/19 11:07	05/21/19 00:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.1		1.0	0.50	mg/L			05/16/19 06:44	1
Total Organic Carbon - Quad	1.1		1.0	0.50	mg/L			05/16/19 06:44	1

Client Sample ID: OLF-G08

Lab Sample ID: 680-168800-4

Date Collected: 05/07/19 15:26

Matrix: Water

Date Received: 05/09/19 09:32

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.48	J	1.0	0.40	mg/L			05/22/19 22:19	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	2700		1000	480	ug/L		05/20/19 11:07	05/21/19 00:22	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G20

Lab Sample ID: 680-168800-5

Date Collected: 05/07/19 13:46

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/21/19 17:26	1
Acrylonitrile	10	U	20	10	ug/L			05/21/19 17:26	1
Benzene	0.46	J	1.0	0.43	ug/L			05/21/19 17:26	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/21/19 17:26	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/21/19 17:26	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/21/19 17:26	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/21/19 17:26	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/21/19 17:26	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/21/19 17:26	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/21/19 17:26	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/21/19 17:26	1
Chlorobenzene	1.5		1.0	0.26	ug/L			05/21/19 17:26	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/21/19 17:26	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/21/19 17:26	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/21/19 17:26	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/21/19 17:26	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/21/19 17:26	1
cis-1,2-Dichloroethene	5.9	B	1.0	0.41	ug/L			05/21/19 17:26	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/21/19 17:26	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/21/19 17:26	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/21/19 17:26	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/21/19 17:26	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/21/19 17:26	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/21/19 17:26	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/21/19 17:26	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/21/19 17:26	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/21/19 17:26	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/21/19 17:26	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/21/19 17:26	1
1,1-Dichloroethene	1.9		1.0	0.36	ug/L			05/21/19 17:26	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/21/19 17:26	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/21/19 17:26	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/21/19 17:26	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/21/19 17:26	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/21/19 17:26	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/21/19 17:26	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/21/19 17:26	1
Iodomethane	5.0	U	10	5.0	ug/L			05/21/19 17:26	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/21/19 17:26	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/21/19 17:26	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/21/19 17:26	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/21/19 17:26	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/21/19 17:26	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/21/19 17:26	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/21/19 17:26	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/21/19 17:26	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/21/19 17:26	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/21/19 17:26	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/21/19 17:26	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G20

Lab Sample ID: 680-168800-5

Date Collected: 05/07/19 13:46

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/21/19 17:26	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/21/19 17:26	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/21/19 17:26	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/21/19 17:26	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/21/19 17:26	1
Toluene	0.48	U	1.0	0.48	ug/L			05/21/19 17:26	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/21/19 17:26	1
trans-1,2-Dichloroethene	1.5		1.0	0.37	ug/L			05/21/19 17:26	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/21/19 17:26	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/21/19 17:26	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/21/19 17:26	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/21/19 17:26	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/21/19 17:26	1
Trichloroethene	9.2		1.0	0.48	ug/L			05/21/19 17:26	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/21/19 17:26	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/21/19 17:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/21/19 17:26	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/21/19 17:26	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/21/19 17:26	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/21/19 17:26	1
Vinyl chloride	6.5		1.0	0.50	ug/L			05/21/19 17:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/21/19 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		05/21/19 17:26	1
Dibromofluoromethane (Surr)	103		80 - 122		05/21/19 17:26	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		05/21/19 17:26	1
Toluene-d8 (Surr)	103		80 - 120		05/21/19 17:26	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.5		1.0	0.40	mg/L			05/22/19 22:31	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	8100		1000	480	ug/L		05/20/19 11:07	05/21/19 00:50	1

Client Sample ID: DUP #323

Lab Sample ID: 680-168800-6

Date Collected: 05/06/19 00:00

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/19/19 19:27	1
Acrylonitrile	10	U	20	10	ug/L			05/19/19 19:27	1
Benzene	0.43	U	1.0	0.43	ug/L			05/19/19 19:27	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/19/19 19:27	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/19/19 19:27	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/19/19 19:27	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/19/19 19:27	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/19/19 19:27	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: DUP #323

Lab Sample ID: 680-168800-6

Date Collected: 05/06/19 00:00

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/19/19 19:27	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/19/19 19:27	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/19/19 19:27	1
Chlorobenzene	17		1.0	0.26	ug/L			05/19/19 19:27	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/19/19 19:27	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/19/19 19:27	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/19/19 19:27	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/19/19 19:27	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/19/19 19:27	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/19/19 19:27	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/19/19 19:27	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/19/19 19:27	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/19/19 19:27	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/19/19 19:27	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/19/19 19:27	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/19/19 19:27	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/19/19 19:27	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/19/19 19:27	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/19/19 19:27	1
1,2-Dichloroethane	0.67	J	1.0	0.50	ug/L			05/19/19 19:27	1
1,1-Dichloroethene	0.80	J	1.0	0.36	ug/L			05/19/19 19:27	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/19/19 19:27	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/19/19 19:27	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/19/19 19:27	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/19/19 19:27	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/19/19 19:27	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/19/19 19:27	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/19/19 19:27	1
Iodomethane	5.0	U	10	5.0	ug/L			05/19/19 19:27	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/19/19 19:27	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/19/19 19:27	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/19/19 19:27	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/19/19 19:27	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/19/19 19:27	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/19/19 19:27	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 19:27	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/19/19 19:27	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/19/19 19:27	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/19/19 19:27	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/19/19 19:27	1
Styrene	0.27	U	1.0	0.27	ug/L			05/19/19 19:27	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/19/19 19:27	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 19:27	1
Tetrachloroethylene	6.8		1.0	0.74	ug/L			05/19/19 19:27	1
Toluene	0.48	U	1.0	0.48	ug/L			05/19/19 19:27	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/19/19 19:27	1
trans-1,2-Dichloroethene	100		1.0	0.37	ug/L			05/19/19 19:27	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/19/19 19:27	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 19:27	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: DUP #323

Lab Sample ID: 680-168800-6

Date Collected: 05/06/19 00:00

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 19:27	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 19:27	1
1,1,2-Trichloroethane	29		1.0	0.33	ug/L			05/19/19 19:27	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/19/19 19:27	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/19/19 19:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/19/19 19:27	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 19:27	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/19/19 19:27	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/19/19 19:27	1
Vinyl chloride	7.2		1.0	0.50	ug/L			05/19/19 19:27	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/19/19 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		05/19/19 19:27	1
Dibromofluoromethane (Surr)	102		80 - 122		05/19/19 19:27	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		05/19/19 19:27	1
Toluene-d8 (Surr)	102		80 - 120		05/19/19 19:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	330		10	4.1	ug/L			05/20/19 16:00	10
1,1,2,2-Tetrachloroethane	1200		10	6.2	ug/L			05/20/19 16:00	10
Trichloroethene	690		10	4.8	ug/L			05/20/19 16:00	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		05/20/19 16:00	10
Dibromofluoromethane (Surr)	94		80 - 122		05/20/19 16:00	10
1,2-Dichloroethane-d4 (Surr)	114		73 - 131		05/20/19 16:00	10
Toluene-d8 (Surr)	103		80 - 120		05/20/19 16:00	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.0	J	1.1	0.55	ug/L			05/16/19 16:56	1
Ethylene	0.50	U	1.0	0.50	ug/L			05/16/19 16:56	1
Methane	200		0.58	0.29	ug/L			05/16/19 16:56	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2.3		1.0	0.40	mg/L			05/22/19 22:44	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	14000		1000	480	ug/L		05/20/19 11:07	05/21/19 00:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.1		1.0	0.50	mg/L			05/16/19 07:03	1
Total Organic Carbon - Quad	1.1		1.0	0.50	mg/L			05/16/19 07:03	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G06

Lab Sample ID: 680-168800-7

Date Collected: 05/06/19 10:06

Matrix: Water

Date Received: 05/09/19 09:32

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			05/22/19 22:57	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		05/20/19 11:07	05/21/19 00:41	1

Client Sample ID: TB #530

Lab Sample ID: 680-168800-8

Date Collected: 05/08/19 15:20

Matrix: Water

Date Received: 05/09/19 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/22/19 01:11	1
Acrylonitrile	10	U	20	10	ug/L			05/22/19 01:11	1
Benzene	0.43	U	1.0	0.43	ug/L			05/22/19 01:11	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/22/19 01:11	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/22/19 01:11	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/22/19 01:11	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/22/19 01:11	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/22/19 01:11	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/22/19 01:11	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/22/19 01:11	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/22/19 01:11	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/22/19 01:11	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/22/19 01:11	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/22/19 01:11	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/22/19 01:11	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/22/19 01:11	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/22/19 01:11	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/22/19 01:11	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/22/19 01:11	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/22/19 01:11	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/22/19 01:11	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/22/19 01:11	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/22/19 01:11	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/22/19 01:11	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/22/19 01:11	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/22/19 01:11	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/22/19 01:11	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/22/19 01:11	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/22/19 01:11	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/22/19 01:11	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/22/19 01:11	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/22/19 01:11	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/22/19 01:11	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/22/19 01:11	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/22/19 01:11	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/22/19 01:11	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/22/19 01:11	1
Iodomethane	5.0	U	10	5.0	ug/L			05/22/19 01:11	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: TB #530

Lab Sample ID: 680-168800-8

Date Collected: 05/08/19 15:20

Matrix: Water

Date Received: 05/09/19 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/22/19 01:11	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/22/19 01:11	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/22/19 01:11	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/22/19 01:11	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/22/19 01:11	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/22/19 01:11	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 01:11	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/22/19 01:11	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/22/19 01:11	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/22/19 01:11	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/22/19 01:11	1
Styrene	0.27	U	1.0	0.27	ug/L			05/22/19 01:11	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/22/19 01:11	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 01:11	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/22/19 01:11	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/22/19 01:11	1
Toluene	0.48	U	1.0	0.48	ug/L			05/22/19 01:11	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/22/19 01:11	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/22/19 01:11	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/22/19 01:11	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 01:11	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 01:11	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 01:11	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/22/19 01:11	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/22/19 01:11	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/22/19 01:11	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/22/19 01:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/22/19 01:11	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 01:11	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/22/19 01:11	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/22/19 01:11	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/22/19 01:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/22/19 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/22/19 01:11	1
Dibromofluoromethane (Surr)	103		80 - 122		05/22/19 01:11	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131		05/22/19 01:11	1
Toluene-d8 (Surr)	103		80 - 120		05/22/19 01:11	1

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-570981/9

Matrix: Water

Analysis Batch: 570981

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/19/19 14:48	1
Acrylonitrile	10	U	20	10	ug/L			05/19/19 14:48	1
Benzene	0.43	U	1.0	0.43	ug/L			05/19/19 14:48	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/19/19 14:48	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/19/19 14:48	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/19/19 14:48	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/19/19 14:48	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/19/19 14:48	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/19/19 14:48	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/19/19 14:48	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/19/19 14:48	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/19/19 14:48	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/19/19 14:48	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/19/19 14:48	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/19/19 14:48	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/19/19 14:48	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/19/19 14:48	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/19/19 14:48	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/19/19 14:48	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/19/19 14:48	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/19/19 14:48	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/19/19 14:48	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/19/19 14:48	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/19/19 14:48	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/19/19 14:48	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/19/19 14:48	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/19/19 14:48	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/19/19 14:48	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/19/19 14:48	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/19/19 14:48	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/19/19 14:48	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/19/19 14:48	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/19/19 14:48	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/19/19 14:48	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/19/19 14:48	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/19/19 14:48	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/19/19 14:48	1
Iodomethane	5.0	U	10	5.0	ug/L			05/19/19 14:48	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/19/19 14:48	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/19/19 14:48	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/19/19 14:48	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/19/19 14:48	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/19/19 14:48	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/19/19 14:48	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 14:48	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/19/19 14:48	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/19/19 14:48	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/19/19 14:48	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: MB 680-570981/9

Matrix: Water

Analysis Batch: 570981

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/19/19 14:48	1
Styrene	0.27	U	1.0	0.27	ug/L			05/19/19 14:48	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/19/19 14:48	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 14:48	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/19/19 14:48	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/19/19 14:48	1
Toluene	0.48	U	1.0	0.48	ug/L			05/19/19 14:48	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/19/19 14:48	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/19/19 14:48	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/19/19 14:48	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 14:48	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/19/19 14:48	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/19/19 14:48	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/19/19 14:48	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/19/19 14:48	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/19/19 14:48	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/19/19 14:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/19/19 14:48	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/19/19 14:48	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/19/19 14:48	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/19/19 14:48	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/19/19 14:48	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/19/19 14:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/19/19 14:48	1
Dibromofluoromethane (Surr)	103		80 - 122		05/19/19 14:48	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/19/19 14:48	1
Toluene-d8 (Surr)	104		80 - 120		05/19/19 14:48	1

Lab Sample ID: LCS 680-570981/4

Matrix: Water

Analysis Batch: 570981

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	263		ug/L		105	70 - 135
Acrylonitrile	500	515		ug/L		103	80 - 123
Benzene	50.0	53.4		ug/L		107	80 - 120
Bromobenzene	50.0	50.5		ug/L		101	80 - 121
Bromochloromethane	50.0	54.3		ug/L		109	80 - 120
Bromodichloromethane	50.0	56.3		ug/L		113	80 - 120
Bromoform	50.0	53.3		ug/L		107	74 - 126
Bromomethane	50.0	52.5		ug/L		105	62 - 130
2-Butanone (MEK)	250	288		ug/L		115	80 - 131
Carbon disulfide	50.0	53.7		ug/L		107	80 - 120
Carbon tetrachloride	50.0	56.6		ug/L		113	76 - 123
Chlorobenzene	50.0	50.0		ug/L		100	80 - 120
Chloroethane	50.0	53.1		ug/L		106	66 - 135

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCS 680-570981/4

Matrix: Water

Analysis Batch: 570981

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	56.9		ug/L		114	80 - 120
Chloromethane	50.0	54.1		ug/L		108	69 - 131
2-Chlorotoluene	50.0	49.2		ug/L		98	80 - 120
4-Chlorotoluene	50.0	49.4		ug/L		99	80 - 120
cis-1,2-Dichloroethene	50.0	55.0		ug/L		110	80 - 120
cis-1,3-Dichloropropene	50.0	57.4		ug/L		115	80 - 120
Dibromochloromethane	50.0	56.6		ug/L		113	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	54.5		ug/L		109	71 - 134
1,2-Dibromoethane	50.0	54.9		ug/L		110	80 - 120
Dibromomethane	50.0	56.3		ug/L		113	80 - 120
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	80 - 120
1,3-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120
1,4-Dichlorobenzene	50.0	49.0		ug/L		98	80 - 120
Dichlorodifluoromethane	50.0	50.0		ug/L		100	47 - 155
1,1-Dichloroethane	50.0	54.7		ug/L		109	80 - 120
1,2-Dichloroethane	50.0	55.0		ug/L		110	80 - 120
1,1-Dichloroethene	50.0	56.3		ug/L		113	76 - 120
1,2-Dichloropropane	50.0	53.1		ug/L		106	80 - 120
1,3-Dichloropropane	50.0	53.9		ug/L		108	80 - 120
2,2-Dichloropropane	50.0	59.6		ug/L		119	76 - 126
1,1-Dichloropropene	50.0	54.1		ug/L		108	80 - 120
Ethylbenzene	50.0	49.4		ug/L		99	80 - 120
Hexachlorobutadiene	50.0	51.4		ug/L		103	60 - 140
2-Hexanone	250	265		ug/L		106	74 - 127
Iodomethane	50.0	52.7		ug/L		105	52 - 142
Isopropylbenzene	50.0	50.7		ug/L		101	80 - 120
Methylene Chloride	50.0	52.5		ug/L		105	80 - 120
4-Methyl-2-pentanone	250	269		ug/L		107	76 - 124
Methyl tert-butyl ether	50.0	54.7		ug/L		109	80 - 120
m-Xylene & p-Xylene	50.0	49.9		ug/L		100	80 - 120
Naphthalene	50.0	52.3		ug/L		105	59 - 140
n-Butylbenzene	50.0	50.7		ug/L		101	80 - 120
N-Propylbenzene	50.0	50.0		ug/L		100	80 - 120
o-Xylene	50.0	49.8		ug/L		100	80 - 120
p-Isopropyltoluene	50.0	49.3		ug/L		99	80 - 120
sec-Butylbenzene	50.0	50.7		ug/L		101	80 - 120
Styrene	50.0	51.0		ug/L		102	80 - 120
tert-Butylbenzene	50.0	50.4		ug/L		101	80 - 121
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/L		108	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/L		101	80 - 120
Tetrachloroethylene	50.0	55.4		ug/L		111	80 - 121
Toluene	50.0	54.7		ug/L		109	80 - 113
trans-1,4-Dichloro-2-butene	50.0	55.6		ug/L		111	68 - 125
trans-1,2-Dichloroethene	50.0	54.5		ug/L		109	80 - 120
trans-1,3-Dichloropropene	50.0	57.8		ug/L		116	80 - 120
1,2,3-Trichlorobenzene	50.0	50.4		ug/L		101	61 - 141
1,2,4-Trichlorobenzene	50.0	50.0		ug/L		100	68 - 128
1,1,1-Trichloroethane	50.0	56.3		ug/L		113	80 - 120
1,1,2-Trichloroethane	50.0	55.7		ug/L		111	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCS 680-570981/4

Matrix: Water

Analysis Batch: 570981

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	55.0		ug/L		110	80 - 120
Trichlorofluoromethane	50.0	54.3		ug/L		109	60 - 141
1,2,3-Trichloropropane	50.0	53.4		ug/L		107	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.9		ug/L		110	79 - 124
1,2,4-Trimethylbenzene	50.0	50.0		ug/L		100	80 - 120
1,3,5-Trimethylbenzene	50.0	50.5		ug/L		101	80 - 120
Vinyl acetate	100	112		ug/L		112	67 - 135
Vinyl chloride	50.0	53.1		ug/L		106	71 - 128
Xylenes, Total	100	99.7		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	107		80 - 122
1,2-Dichloroethane-d4 (Surr)	104		73 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: LCSD 680-570981/5

Matrix: Water

Analysis Batch: 570981

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	253		ug/L		101	70 - 135	4	30
Acrylonitrile	500	517		ug/L		103	80 - 123	0	20
Benzene	50.0	53.1		ug/L		106	80 - 120	1	20
Bromobenzene	50.0	50.4		ug/L		101	80 - 121	0	20
Bromochloromethane	50.0	53.4		ug/L		107	80 - 120	2	20
Bromodichloromethane	50.0	55.8		ug/L		112	80 - 120	1	20
Bromoform	50.0	53.7		ug/L		107	74 - 126	1	20
Bromomethane	50.0	51.1		ug/L		102	62 - 130	3	20
2-Butanone (MEK)	250	273		ug/L		109	80 - 131	6	20
Carbon disulfide	50.0	51.9		ug/L		104	80 - 120	3	20
Carbon tetrachloride	50.0	56.1		ug/L		112	76 - 123	1	20
Chlorobenzene	50.0	49.8		ug/L		100	80 - 120	0	20
Chloroethane	50.0	52.4		ug/L		105	66 - 135	1	20
Chloroform	50.0	54.3		ug/L		109	80 - 120	5	20
Chloromethane	50.0	53.8		ug/L		108	69 - 131	0	30
2-Chlorotoluene	50.0	49.4		ug/L		99	80 - 120	0	20
4-Chlorotoluene	50.0	49.0		ug/L		98	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	54.1		ug/L		108	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	56.2		ug/L		112	80 - 120	2	20
Dibromochloromethane	50.0	56.1		ug/L		112	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	51.9		ug/L		104	71 - 134	5	20
1,2-Dibromoethane	50.0	54.8		ug/L		110	80 - 120	0	20
Dibromomethane	50.0	54.8		ug/L		110	80 - 120	3	20
1,2-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 120	1	20
1,3-Dichlorobenzene	50.0	47.6		ug/L		95	80 - 120	2	20
1,4-Dichlorobenzene	50.0	48.2		ug/L		96	80 - 120	2	20
Dichlorodifluoromethane	50.0	48.3		ug/L		97	47 - 155	3	40

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCSD 680-570981/5

Matrix: Water

Analysis Batch: 570981

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	53.9		ug/L		108	80 - 120	2	20
1,2-Dichloroethane	50.0	53.7		ug/L		107	80 - 120	2	50
1,1-Dichloroethene	50.0	55.5		ug/L		111	76 - 120	1	20
1,2-Dichloropropane	50.0	52.0		ug/L		104	80 - 120	2	20
1,3-Dichloropropane	50.0	53.4		ug/L		107	80 - 120	1	20
2,2-Dichloropropane	50.0	57.9		ug/L		116	76 - 126	3	20
1,1-Dichloropropene	50.0	53.2		ug/L		106	80 - 120	2	20
Ethylbenzene	50.0	49.5		ug/L		99	80 - 120	0	20
Hexachlorobutadiene	50.0	50.1		ug/L		100	60 - 140	3	20
2-Hexanone	250	259		ug/L		104	74 - 127	2	20
Iodomethane	50.0	52.1		ug/L		104	52 - 142	1	30
Isopropylbenzene	50.0	49.6		ug/L		99	80 - 120	2	20
Methylene Chloride	50.0	51.2		ug/L		102	80 - 120	3	20
4-Methyl-2-pentanone	250	264		ug/L		106	76 - 124	2	20
Methyl tert-butyl ether	50.0	54.3		ug/L		109	80 - 120	1	20
m-Xylene & p-Xylene	50.0	49.8		ug/L		100	80 - 120	0	20
Naphthalene	50.0	50.7		ug/L		101	59 - 140	3	20
n-Butylbenzene	50.0	48.6		ug/L		97	80 - 120	4	20
N-Propylbenzene	50.0	49.3		ug/L		99	80 - 120	1	20
o-Xylene	50.0	49.2		ug/L		98	80 - 120	1	30
p-Isopropyltoluene	50.0	48.8		ug/L		98	80 - 120	1	20
sec-Butylbenzene	50.0	49.7		ug/L		99	80 - 120	2	20
Styrene	50.0	50.1		ug/L		100	80 - 120	2	20
tert-Butylbenzene	50.0	49.6		ug/L		99	80 - 121	2	20
1,1,1,2-Tetrachloroethane	50.0	53.6		ug/L		107	80 - 121	0	20
1,1,2,2-Tetrachloroethane	50.0	49.3		ug/L		99	80 - 120	2	20
Tetrachloroethylene	50.0	54.4		ug/L		109	80 - 121	2	20
Toluene	50.0	53.8		ug/L		108	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	54.5		ug/L		109	68 - 125	2	30
trans-1,2-Dichloroethene	50.0	54.5		ug/L		109	80 - 120	0	20
trans-1,3-Dichloropropene	50.0	56.7		ug/L		113	80 - 120	2	30
1,2,3-Trichlorobenzene	50.0	49.0		ug/L		98	61 - 141	3	20
1,2,4-Trichlorobenzene	50.0	49.2		ug/L		98	68 - 128	2	20
1,1,1-Trichloroethane	50.0	54.1		ug/L		108	80 - 120	4	20
1,1,2-Trichloroethane	50.0	54.8		ug/L		110	80 - 120	2	20
Trichloroethene	50.0	54.5		ug/L		109	80 - 120	1	20
Trichlorofluoromethane	50.0	52.6		ug/L		105	60 - 141	3	20
1,2,3-Trichloropropane	50.0	52.2		ug/L		104	80 - 123	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.7		ug/L		105	79 - 124	4	20
1,2,4-Trimethylbenzene	50.0	49.3		ug/L		99	80 - 120	1	20
1,3,5-Trimethylbenzene	50.0	49.6		ug/L		99	80 - 120	2	20
Vinyl acetate	100	109		ug/L		109	67 - 135	3	20
Vinyl chloride	50.0	51.3		ug/L		103	71 - 128	4	20
Xylenes, Total	100	99.0		ug/L		99	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCSD 680-570981/5

Matrix: Water

Analysis Batch: 570981

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	106		80 - 122
1,2-Dichloroethane-d4 (Surr)	102		73 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: MB 680-571004/9

Matrix: Water

Analysis Batch: 571004

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/20/19 11:31	1
Acrylonitrile	10	U	20	10	ug/L			05/20/19 11:31	1
Benzene	0.43	U	1.0	0.43	ug/L			05/20/19 11:31	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/20/19 11:31	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/20/19 11:31	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/20/19 11:31	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/20/19 11:31	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/20/19 11:31	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/20/19 11:31	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/20/19 11:31	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/20/19 11:31	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/20/19 11:31	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/20/19 11:31	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/20/19 11:31	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/20/19 11:31	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/20/19 11:31	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/20/19 11:31	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/20/19 11:31	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/20/19 11:31	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/20/19 11:31	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/20/19 11:31	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/20/19 11:31	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/20/19 11:31	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/20/19 11:31	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/20/19 11:31	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/20/19 11:31	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/20/19 11:31	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/20/19 11:31	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/20/19 11:31	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/20/19 11:31	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/20/19 11:31	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/20/19 11:31	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/20/19 11:31	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/20/19 11:31	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/20/19 11:31	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/20/19 11:31	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/20/19 11:31	1
Iodomethane	5.0	U	10	5.0	ug/L			05/20/19 11:31	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/20/19 11:31	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: MB 680-571004/9

Matrix: Water

Analysis Batch: 571004

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/20/19 11:31	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/20/19 11:31	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/20/19 11:31	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/20/19 11:31	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/20/19 11:31	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/20/19 11:31	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/20/19 11:31	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/20/19 11:31	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/20/19 11:31	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/20/19 11:31	1
Styrene	0.27	U	1.0	0.27	ug/L			05/20/19 11:31	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/20/19 11:31	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/20/19 11:31	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/20/19 11:31	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/20/19 11:31	1
Toluene	0.48	U	1.0	0.48	ug/L			05/20/19 11:31	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/20/19 11:31	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/20/19 11:31	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/20/19 11:31	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/20/19 11:31	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/20/19 11:31	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/20/19 11:31	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/20/19 11:31	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/20/19 11:31	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/20/19 11:31	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/20/19 11:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/20/19 11:31	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/20/19 11:31	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/20/19 11:31	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/20/19 11:31	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/20/19 11:31	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/20/19 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		05/20/19 11:31	1
Dibromofluoromethane (Surr)	91		80 - 122		05/20/19 11:31	1
1,2-Dichloroethane-d4 (Surr)	102		73 - 131		05/20/19 11:31	1
Toluene-d8 (Surr)	101		80 - 120		05/20/19 11:31	1

Lab Sample ID: LCS 680-571004/1003

Matrix: Water

Analysis Batch: 571004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	231		ug/L		92	70 - 135
Acrylonitrile	500	498		ug/L		100	80 - 123
Benzene	50.0	49.6		ug/L		99	80 - 120
Bromobenzene	50.0	51.6		ug/L		103	80 - 121

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCS 680-571004/1003

Matrix: Water

Analysis Batch: 571004

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	46.3		ug/L		93	80 - 120
Bromodichloromethane	50.0	114	*	ug/L		227	80 - 120
Bromoform	50.0	112	*	ug/L		223	74 - 126
Bromomethane	50.0	67.2	*	ug/L		134	62 - 130
2-Butanone (MEK)	250	222		ug/L		89	80 - 131
Carbon disulfide	50.0	48.1		ug/L		96	80 - 120
Carbon tetrachloride	50.0	348	*	ug/L		696	76 - 123
Chlorobenzene	50.0	52.0		ug/L		104	80 - 120
Chloroethane	50.0	55.1		ug/L		110	66 - 135
Chloroform	50.0	51.6		ug/L		103	80 - 120
Chloromethane	50.0	57.4		ug/L		115	69 - 131
2-Chlorotoluene	50.0	52.1		ug/L		104	80 - 120
4-Chlorotoluene	50.0	51.3		ug/L		103	80 - 120
cis-1,2-Dichloroethene	50.0	51.4		ug/L		103	80 - 120
cis-1,3-Dichloropropene	50.0	57.4		ug/L		115	80 - 120
Dibromochloromethane	50.0	139	*	ug/L		278	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	49.4		ug/L		99	71 - 134
1,2-Dibromoethane	50.0	51.8		ug/L		104	80 - 120
Dibromomethane	50.0	54.7		ug/L		109	80 - 120
1,2-Dichlorobenzene	50.0	48.8		ug/L		98	80 - 120
1,3-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	51.2		ug/L		102	80 - 120
Dichlorodifluoromethane	50.0	45.2		ug/L		90	47 - 155
1,1-Dichloroethane	50.0	52.2		ug/L		104	80 - 120
1,2-Dichloroethane	50.0	50.2		ug/L		100	80 - 120
1,1-Dichloroethene	50.0	53.1		ug/L		106	76 - 120
1,2-Dichloropropane	50.0	53.2		ug/L		106	80 - 120
1,3-Dichloropropane	50.0	50.3		ug/L		101	80 - 120
2,2-Dichloropropane	50.0	60.6		ug/L		121	76 - 126
1,1-Dichloropropene	50.0	50.8		ug/L		102	80 - 120
Ethylbenzene	50.0	51.6		ug/L		103	80 - 120
Hexachlorobutadiene	50.0	49.6		ug/L		99	60 - 140
2-Hexanone	250	235		ug/L		94	74 - 127
Iodomethane	50.0	46.5		ug/L		93	52 - 142
Isopropylbenzene	50.0	53.5		ug/L		107	80 - 120
Methylene Chloride	50.0	49.8		ug/L		100	80 - 120
4-Methyl-2-pentanone	250	231		ug/L		93	76 - 124
Methyl tert-butyl ether	50.0	50.7		ug/L		101	80 - 120
m-Xylene & p-Xylene	50.0	51.1		ug/L		102	80 - 120
Naphthalene	50.0	35.8		ug/L		72	59 - 140
n-Butylbenzene	50.0	52.0		ug/L		104	80 - 120
N-Propylbenzene	50.0	50.9		ug/L		102	80 - 120
o-Xylene	50.0	52.6		ug/L		105	80 - 120
p-Isopropyltoluene	50.0	52.5		ug/L		105	80 - 120
sec-Butylbenzene	50.0	52.7		ug/L		105	80 - 120
Styrene	50.0	52.3		ug/L		105	80 - 120
tert-Butylbenzene	50.0	52.6		ug/L		105	80 - 121
1,1,1,2-Tetrachloroethane	50.0	70.4	*	ug/L		141	80 - 121
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L		102	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCS 680-571004/1003

Matrix: Water

Analysis Batch: 571004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethylene	50.0	53.4		ug/L		107	80 - 121
Toluene	50.0	50.4		ug/L		101	80 - 113
trans-1,4-Dichloro-2-butene	50.0	61.1		ug/L		122	68 - 125
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	80 - 120
trans-1,3-Dichloropropene	50.0	53.7		ug/L		107	80 - 120
1,2,3-Trichlorobenzene	50.0	25.3	*	ug/L		51	61 - 141
1,2,4-Trichlorobenzene	50.0	43.8		ug/L		88	68 - 128
1,1,1-Trichloroethane	50.0	67.3	*	ug/L		135	80 - 120
1,1,2-Trichloroethane	50.0	53.5		ug/L		107	80 - 120
Trichloroethene	50.0	51.2		ug/L		102	80 - 120
Trichlorofluoromethane	50.0	64.2		ug/L		128	60 - 141
1,2,3-Trichloropropane	50.0	48.7		ug/L		97	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	63.3	*	ug/L		127	79 - 124
1,2,4-Trimethylbenzene	50.0	52.7		ug/L		105	80 - 120
1,3,5-Trimethylbenzene	50.0	51.9		ug/L		104	80 - 120
Vinyl acetate	100	117		ug/L		117	67 - 135
Vinyl chloride	50.0	58.2		ug/L		116	71 - 128
Xylenes, Total	100	104		ug/L		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	85		80 - 122
1,2-Dichloroethane-d4 (Surr)	98		73 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 680-571004/4

Matrix: Water

Analysis Batch: 571004

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	229		ug/L		92	70 - 135	1	30
Acrylonitrile	500	491		ug/L		98	80 - 123	1	20
Benzene	50.0	50.7		ug/L		101	80 - 120	2	20
Bromobenzene	50.0	53.0		ug/L		106	80 - 121	3	20
Bromochloromethane	50.0	48.7		ug/L		97	80 - 120	5	20
Bromodichloromethane	50.0	114	*	ug/L		228	80 - 120	0	20
Bromoform	50.0	111	*	ug/L		221	74 - 126	1	20
Bromomethane	50.0	70.4	*	ug/L		141	62 - 130	5	20
2-Butanone (MEK)	250	220		ug/L		88	80 - 131	1	20
Carbon disulfide	50.0	49.7		ug/L		99	80 - 120	3	20
Carbon tetrachloride	50.0	338	*	ug/L		676	76 - 123	3	20
Chlorobenzene	50.0	52.1		ug/L		104	80 - 120	0	20
Chloroethane	50.0	58.1		ug/L		116	66 - 135	5	20
Chloroform	50.0	53.2		ug/L		106	80 - 120	3	20
Chloromethane	50.0	58.0		ug/L		116	69 - 131	1	30
2-Chlorotoluene	50.0	52.1		ug/L		104	80 - 120	0	20
4-Chlorotoluene	50.0	52.2		ug/L		104	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	52.0		ug/L		104	80 - 120	1	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCSD 680-571004/4

Matrix: Water

Analysis Batch: 571004

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
cis-1,3-Dichloropropene	50.0	57.3		ug/L		115	80 - 120	0	20
Dibromochloromethane	50.0	140	*	ug/L		280	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	48.7		ug/L		97	71 - 134	2	20
1,2-Dibromoethane	50.0	52.3		ug/L		105	80 - 120	1	20
Dibromomethane	50.0	54.3		ug/L		109	80 - 120	1	20
1,2-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120	1	20
1,3-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 120	2	20
1,4-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120	0	20
Dichlorodifluoromethane	50.0	45.6		ug/L		91	47 - 155	1	40
1,1-Dichloroethane	50.0	52.7		ug/L		105	80 - 120	1	20
1,2-Dichloroethane	50.0	50.5		ug/L		101	80 - 120	1	50
1,1-Dichloroethene	50.0	54.5		ug/L		109	76 - 120	3	20
1,2-Dichloropropane	50.0	52.9		ug/L		106	80 - 120	1	20
1,3-Dichloropropane	50.0	50.6		ug/L		101	80 - 120	1	20
2,2-Dichloropropane	50.0	61.7		ug/L		123	76 - 126	2	20
1,1-Dichloropropene	50.0	52.1		ug/L		104	80 - 120	3	20
Ethylbenzene	50.0	53.0		ug/L		106	80 - 120	3	20
Hexachlorobutadiene	50.0	52.2		ug/L		104	60 - 140	5	20
2-Hexanone	250	235		ug/L		94	74 - 127	0	20
Iodomethane	50.0	49.1		ug/L		98	52 - 142	5	30
Isopropylbenzene	50.0	54.1		ug/L		108	80 - 120	1	20
Methylene Chloride	50.0	49.8		ug/L		100	80 - 120	0	20
4-Methyl-2-pentanone	250	230		ug/L		92	76 - 124	1	20
Methyl tert-butyl ether	50.0	49.1		ug/L		98	80 - 120	3	20
m-Xylene & p-Xylene	50.0	52.0		ug/L		104	80 - 120	2	20
Naphthalene	50.0	36.6		ug/L		73	59 - 140	2	20
n-Butylbenzene	50.0	52.9		ug/L		106	80 - 120	2	20
N-Propylbenzene	50.0	52.5		ug/L		105	80 - 120	3	20
o-Xylene	50.0	52.4		ug/L		105	80 - 120	0	30
p-Isopropyltoluene	50.0	54.0		ug/L		108	80 - 120	3	20
sec-Butylbenzene	50.0	53.1		ug/L		106	80 - 120	1	20
Styrene	50.0	52.8		ug/L		106	80 - 120	1	20
tert-Butylbenzene	50.0	53.7		ug/L		107	80 - 121	2	20
1,1,1,2-Tetrachloroethane	50.0	71.8	*	ug/L		144	80 - 121	2	20
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	80 - 120	0	20
Tetrachloroethylene	50.0	55.1		ug/L		110	80 - 121	3	20
Toluene	50.0	51.2		ug/L		102	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	60.4		ug/L		121	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	53.5		ug/L		107	80 - 120	4	20
trans-1,3-Dichloropropene	50.0	54.6		ug/L		109	80 - 120	2	30
1,2,3-Trichlorobenzene	50.0	27.1	*	ug/L		54	61 - 141	7	20
1,2,4-Trichlorobenzene	50.0	45.3		ug/L		91	68 - 128	3	20
1,1,1-Trichloroethane	50.0	70.1	*	ug/L		140	80 - 120	4	20
1,1,2-Trichloroethane	50.0	53.5		ug/L		107	80 - 120	0	20
Trichloroethene	50.0	53.1		ug/L		106	80 - 120	4	20
Trichlorofluoromethane	50.0	66.4		ug/L		133	60 - 141	3	20
1,2,3-Trichloropropane	50.0	49.6		ug/L		99	80 - 123	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	66.1	*	ug/L		132	79 - 124	4	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCSD 680-571004/4

Matrix: Water

Analysis Batch: 571004

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
1,2,4-Trimethylbenzene	50.0	53.6		ug/L		107	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	53.0		ug/L		106	80 - 120	2	20
Vinyl acetate	100	117		ug/L		117	67 - 135	1	20
Vinyl chloride	50.0	59.8		ug/L		120	71 - 128	3	20
Xylenes, Total	100	104		ug/L		104	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	87		80 - 122
1,2-Dichloroethane-d4 (Surr)	99		73 - 131
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: MB 680-571150/9

Matrix: Water

Analysis Batch: 571150

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/21/19 11:44	1
Acrylonitrile	10	U	20	10	ug/L			05/21/19 11:44	1
Benzene	0.43	U	1.0	0.43	ug/L			05/21/19 11:44	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/21/19 11:44	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/21/19 11:44	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/21/19 11:44	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/21/19 11:44	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/21/19 11:44	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/21/19 11:44	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/21/19 11:44	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/21/19 11:44	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/21/19 11:44	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/21/19 11:44	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/21/19 11:44	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/21/19 11:44	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/21/19 11:44	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/21/19 11:44	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/21/19 11:44	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/21/19 11:44	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/21/19 11:44	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/21/19 11:44	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/21/19 11:44	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/21/19 11:44	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/21/19 11:44	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/21/19 11:44	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/21/19 11:44	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/21/19 11:44	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/21/19 11:44	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/21/19 11:44	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/21/19 11:44	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/21/19 11:44	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: MB 680-571150/9

Matrix: Water

Analysis Batch: 571150

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/21/19 11:44	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/21/19 11:44	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/21/19 11:44	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/21/19 11:44	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/21/19 11:44	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/21/19 11:44	1
Iodomethane	5.0	U	10	5.0	ug/L			05/21/19 11:44	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/21/19 11:44	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/21/19 11:44	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/21/19 11:44	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/21/19 11:44	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/21/19 11:44	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/21/19 11:44	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/21/19 11:44	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/21/19 11:44	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/21/19 11:44	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/21/19 11:44	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/21/19 11:44	1
Styrene	0.27	U	1.0	0.27	ug/L			05/21/19 11:44	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/21/19 11:44	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/21/19 11:44	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/21/19 11:44	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/21/19 11:44	1
Toluene	0.48	U	1.0	0.48	ug/L			05/21/19 11:44	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/21/19 11:44	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/21/19 11:44	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/21/19 11:44	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/21/19 11:44	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/21/19 11:44	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/21/19 11:44	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/21/19 11:44	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/21/19 11:44	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/21/19 11:44	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/21/19 11:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/21/19 11:44	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/21/19 11:44	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/21/19 11:44	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/21/19 11:44	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/21/19 11:44	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/21/19 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		05/21/19 11:44	1
Dibromofluoromethane (Surr)	98		80 - 122		05/21/19 11:44	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		05/21/19 11:44	1
Toluene-d8 (Surr)	102		80 - 120		05/21/19 11:44	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCS 680-571150/3

Matrix: Water

Analysis Batch: 571150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	201		ug/L		80	70 - 135
Acrylonitrile	500	450		ug/L		90	80 - 123
Benzene	50.0	47.4		ug/L		95	80 - 120
Bromobenzene	50.0	52.5		ug/L		105	80 - 121
Bromochloromethane	50.0	49.3		ug/L		99	80 - 120
Bromodichloromethane	50.0	50.7		ug/L		101	80 - 120
Bromoform	50.0	52.6		ug/L		105	74 - 126
Bromomethane	50.0	35.9		ug/L		72	62 - 130
2-Butanone (MEK)	250	225		ug/L		90	80 - 131
Carbon disulfide	50.0	47.7		ug/L		95	80 - 120
Carbon tetrachloride	50.0	50.0		ug/L		100	76 - 123
Chlorobenzene	50.0	49.6		ug/L		99	80 - 120
Chloroethane	50.0	35.3		ug/L		71	66 - 135
Chloroform	50.0	49.0		ug/L		98	80 - 120
Chloromethane	50.0	40.8		ug/L		82	69 - 131
2-Chlorotoluene	50.0	49.5		ug/L		99	80 - 120
4-Chlorotoluene	50.0	50.4		ug/L		101	80 - 120
cis-1,2-Dichloroethene	50.0	48.5		ug/L		97	80 - 120
cis-1,3-Dichloropropene	50.0	51.6		ug/L		103	80 - 120
Dibromochloromethane	50.0	52.1		ug/L		104	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	48.1		ug/L		96	71 - 134
1,2-Dibromoethane	50.0	50.3		ug/L		101	80 - 120
Dibromomethane	50.0	49.1		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	47.5		ug/L		95	80 - 120
1,3-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120
1,4-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 120
Dichlorodifluoromethane	50.0	39.3		ug/L		79	47 - 155
1,1-Dichloroethane	50.0	48.0		ug/L		96	80 - 120
1,2-Dichloroethane	50.0	49.0		ug/L		98	80 - 120
1,1-Dichloroethene	50.0	51.2		ug/L		102	76 - 120
1,2-Dichloropropane	50.0	48.9		ug/L		98	80 - 120
1,3-Dichloropropane	50.0	48.5		ug/L		97	80 - 120
2,2-Dichloropropane	50.0	56.2		ug/L		112	76 - 126
1,1-Dichloropropene	50.0	47.1		ug/L		94	80 - 120
Ethylbenzene	50.0	49.0		ug/L		98	80 - 120
Hexachlorobutadiene	50.0	57.4		ug/L		115	60 - 140
2-Hexanone	250	228		ug/L		91	74 - 127
Iodomethane	50.0	35.7		ug/L		71	52 - 142
Isopropylbenzene	50.0	50.4		ug/L		101	80 - 120
Methylene Chloride	50.0	46.3		ug/L		93	80 - 120
4-Methyl-2-pentanone	250	230		ug/L		92	76 - 124
Methyl tert-butyl ether	50.0	48.3		ug/L		97	80 - 120
m-Xylene & p-Xylene	50.0	49.1		ug/L		98	80 - 120
Naphthalene	50.0	47.9		ug/L		96	59 - 140
n-Butylbenzene	50.0	50.8		ug/L		102	80 - 120
N-Propylbenzene	50.0	50.8		ug/L		102	80 - 120
o-Xylene	50.0	50.0		ug/L		100	80 - 120
p-Isopropyltoluene	50.0	49.8		ug/L		100	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCS 680-571150/3

Matrix: Water

Analysis Batch: 571150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	50.0	50.4		ug/L		101	80 - 120
Styrene	50.0	51.3		ug/L		103	80 - 120
tert-Butylbenzene	50.0	49.9		ug/L		100	80 - 121
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/L		100	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	80 - 120
Tetrachloroethylene	50.0	51.8		ug/L		104	80 - 121
Toluene	50.0	49.0		ug/L		98	80 - 113
trans-1,4-Dichloro-2-butene	50.0	52.5		ug/L		105	68 - 125
trans-1,2-Dichloroethene	50.0	50.1		ug/L		100	80 - 120
trans-1,3-Dichloropropene	50.0	47.6		ug/L		95	80 - 120
1,2,3-Trichlorobenzene	50.0	52.6		ug/L		105	61 - 141
1,2,4-Trichlorobenzene	50.0	52.6		ug/L		105	68 - 128
1,1,1-Trichloroethane	50.0	48.9		ug/L		98	80 - 120
1,1,2-Trichloroethane	50.0	49.8		ug/L		100	80 - 120
Trichloroethene	50.0	49.5		ug/L		99	80 - 120
Trichlorofluoromethane	50.0	48.0		ug/L		96	60 - 141
1,2,3-Trichloropropane	50.0	48.5		ug/L		97	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.0		ug/L		106	79 - 124
1,2,4-Trimethylbenzene	50.0	50.8		ug/L		102	80 - 120
1,3,5-Trimethylbenzene	50.0	50.5		ug/L		101	80 - 120
Vinyl acetate	100	130		ug/L		130	67 - 135
Vinyl chloride	50.0	43.3		ug/L		87	71 - 128
Xylenes, Total	100	99.1		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	96		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 680-571150/5

Matrix: Water

Analysis Batch: 571150

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	230		ug/L		92	70 - 135	14	30
Acrylonitrile	500	510		ug/L		102	80 - 123	13	20
Benzene	50.0	48.5		ug/L		97	80 - 120	2	20
Bromobenzene	50.0	54.1		ug/L		108	80 - 121	3	20
Bromochloromethane	50.0	55.5		ug/L		111	80 - 120	12	20
Bromodichloromethane	50.0	53.2		ug/L		106	80 - 120	5	20
Bromoform	50.0	56.3		ug/L		113	74 - 126	7	20
Bromomethane	50.0	40.1		ug/L		80	62 - 130	11	20
2-Butanone (MEK)	250	256		ug/L		102	80 - 131	13	20
Carbon disulfide	50.0	44.7		ug/L		89	80 - 120	6	20
Carbon tetrachloride	50.0	45.7		ug/L		91	76 - 123	9	20
Chlorobenzene	50.0	50.9		ug/L		102	80 - 120	3	20
Chloroethane	50.0	37.7		ug/L		75	66 - 135	7	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCSD 680-571150/5

Matrix: Water

Analysis Batch: 571150

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
Chloroform	50.0	52.0		ug/L		104	80 - 120	6	20
Chloromethane	50.0	43.9		ug/L		88	69 - 131	7	30
2-Chlorotoluene	50.0	49.7		ug/L		99	80 - 120	0	20
4-Chlorotoluene	50.0	50.5		ug/L		101	80 - 120	0	20
cis-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120	3	20
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	80 - 120	5	20
Dibromochloromethane	50.0	55.2		ug/L		110	80 - 121	6	20
1,2-Dibromo-3-Chloropropane	50.0	52.4		ug/L		105	71 - 134	8	20
1,2-Dibromoethane	50.0	55.7		ug/L		111	80 - 120	10	20
Dibromomethane	50.0	54.5		ug/L		109	80 - 120	10	20
1,2-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 120	6	20
1,3-Dichlorobenzene	50.0	49.0		ug/L		98	80 - 120	3	20
1,4-Dichlorobenzene	50.0	48.9		ug/L		98	80 - 120	3	20
Dichlorodifluoromethane	50.0	43.5		ug/L		87	47 - 155	10	40
1,1-Dichloroethane	50.0	49.5		ug/L		99	80 - 120	3	20
1,2-Dichloroethane	50.0	54.3		ug/L		109	80 - 120	10	50
1,1-Dichloroethene	50.0	45.0		ug/L		90	76 - 120	13	20
1,2-Dichloropropane	50.0	51.7		ug/L		103	80 - 120	6	20
1,3-Dichloropropane	50.0	54.8		ug/L		110	80 - 120	12	20
2,2-Dichloropropane	50.0	50.3		ug/L		101	76 - 126	11	20
1,1-Dichloropropene	50.0	45.6		ug/L		91	80 - 120	3	20
Ethylbenzene	50.0	48.6		ug/L		97	80 - 120	1	20
Hexachlorobutadiene	50.0	48.3		ug/L		97	60 - 140	17	20
2-Hexanone	250	259		ug/L		104	74 - 127	13	20
Iodomethane	50.0	40.4		ug/L		81	52 - 142	12	30
Isopropylbenzene	50.0	47.1		ug/L		94	80 - 120	7	20
Methylene Chloride	50.0	50.2		ug/L		100	80 - 120	8	20
4-Methyl-2-pentanone	250	261		ug/L		104	76 - 124	13	20
Methyl tert-butyl ether	50.0	54.1		ug/L		108	80 - 120	11	20
m-Xylene & p-Xylene	50.0	48.9		ug/L		98	80 - 120	0	20
Naphthalene	50.0	53.6		ug/L		107	59 - 140	11	20
n-Butylbenzene	50.0	45.7		ug/L		91	80 - 120	11	20
N-Propylbenzene	50.0	48.2		ug/L		96	80 - 120	5	20
o-Xylene	50.0	50.0		ug/L		100	80 - 120	0	30
p-Isopropyltoluene	50.0	46.8		ug/L		94	80 - 120	6	20
sec-Butylbenzene	50.0	46.2		ug/L		92	80 - 120	9	20
Styrene	50.0	52.9		ug/L		106	80 - 120	3	20
tert-Butylbenzene	50.0	47.6		ug/L		95	80 - 121	5	20
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/L		107	80 - 121	8	20
1,1,2,2-Tetrachloroethane	50.0	54.9		ug/L		110	80 - 120	8	20
Tetrachloroethylene	50.0	48.0		ug/L		96	80 - 121	8	20
Toluene	50.0	49.9		ug/L		100	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	55.2		ug/L		110	68 - 125	5	30
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	55.2		ug/L		110	80 - 120	15	30
1,2,3-Trichlorobenzene	50.0	53.9		ug/L		108	61 - 141	2	20
1,2,4-Trichlorobenzene	50.0	53.7		ug/L		107	68 - 128	2	20
1,1,1-Trichloroethane	50.0	46.4		ug/L		93	80 - 120	5	20
1,1,2-Trichloroethane	50.0	54.1		ug/L		108	80 - 120	8	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCSD 680-571150/5

Matrix: Water

Analysis Batch: 571150

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
Trichloroethene	50.0	48.7		ug/L		97	80 - 120	2	20
Trichlorofluoromethane	50.0	42.5		ug/L		85	60 - 141	12	20
1,2,3-Trichloropropane	50.0	54.2		ug/L		108	80 - 123	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.7		ug/L		89	79 - 124	17	20
1,2,4-Trimethylbenzene	50.0	50.7		ug/L		101	80 - 120	0	20
1,3,5-Trimethylbenzene	50.0	48.9		ug/L		98	80 - 120	3	20
Vinyl acetate	100	113		ug/L		113	67 - 135	14	20
Vinyl chloride	50.0	42.8		ug/L		86	71 - 128	1	20
Xylenes, Total	100	98.9		ug/L		99	80 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	110		80 - 122
1,2-Dichloroethane-d4 (Surr)	108		73 - 131
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: 680-168800-2 MS

Matrix: Water

Analysis Batch: 571150

Client Sample ID: OLF-G07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	7.0	U	250	202		ug/L		81	60 - 154
Acrylonitrile	10	U	500	463		ug/L		93	72 - 132
Benzene	0.43	U	50.0	50.0		ug/L		100	73 - 131
Bromobenzene	0.50	U	50.0	52.3		ug/L		105	79 - 124
Bromochloromethane	0.45	U	50.0	51.2		ug/L		102	77 - 122
Bromodichloromethane	0.44	U	50.0	53.3		ug/L		107	77 - 129
Bromoform	0.43	U	50.0	52.8		ug/L		106	69 - 135
Bromomethane	2.5	U	50.0	29.8		ug/L		60	20 - 180
2-Butanone (MEK)	3.4	U	250	230		ug/L		92	75 - 133
Carbon disulfide	1.0	U	50.0	51.2		ug/L		102	73 - 127
Carbon tetrachloride	0.33	U	50.0	56.4		ug/L		113	75 - 130
Chlorobenzene	0.26	U	50.0	49.4		ug/L		99	80 - 120
Chloroethane	2.5	U	50.0	49.9		ug/L		100	50 - 151
Chloroform	0.50	U	50.0	52.9		ug/L		106	79 - 122
Chloromethane	0.40	U	50.0	46.3		ug/L		93	63 - 126
2-Chlorotoluene	0.27	U	50.0	49.7		ug/L		99	77 - 121
4-Chlorotoluene	0.45	U	50.0	50.3		ug/L		101	80 - 120
cis-1,2-Dichloroethene	6.6		50.0	57.0		ug/L		101	80 - 122
cis-1,3-Dichloropropene	0.40	U	50.0	50.0		ug/L		100	80 - 133
Dibromochloromethane	0.32	U	50.0	54.2		ug/L		108	71 - 136
1,2-Dibromo-3-Chloropropane	1.1	U	50.0	46.8		ug/L		94	59 - 141
1,2-Dibromoethane	0.44	U	50.0	52.3		ug/L		105	77 - 131
Dibromomethane	0.35	U	50.0	51.8		ug/L		104	80 - 122
1,2-Dichlorobenzene	0.37	U	50.0	46.1		ug/L		92	80 - 120
1,3-Dichlorobenzene	0.43	U	50.0	46.9		ug/L		94	80 - 120
1,4-Dichlorobenzene	0.46	U	50.0	46.5		ug/L		93	80 - 120
Dichlorodifluoromethane	0.60	U	50.0	49.0		ug/L		98	51 - 140

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: 680-168800-2 MS

Matrix: Water

Analysis Batch: 571150

Client Sample ID: OLF-G07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.38	U	50.0	50.8		ug/L		102	80 - 120
1,2-Dichloroethane	0.50	U	50.0	51.3		ug/L		103	75 - 130
1,1-Dichloroethene	0.36	U	50.0	55.4		ug/L		111	74 - 125
1,2-Dichloropropane	0.67	U	50.0	51.7		ug/L		103	80 - 123
1,3-Dichloropropane	0.34	U	50.0	50.5		ug/L		101	78 - 127
2,2-Dichloropropane	0.37	U	50.0	46.9		ug/L		94	72 - 133
1,1-Dichloropropene	0.34	U	50.0	51.8		ug/L		104	78 - 127
Ethylbenzene	0.33	U	50.0	50.0		ug/L		100	80 - 120
Hexachlorobutadiene	2.5	U	50.0	56.9		ug/L		114	77 - 129
2-Hexanone	2.0	U	250	235		ug/L		94	70 - 141
Iodomethane	5.0	U	50.0	27.1		ug/L		54	15 - 162
Isopropylbenzene	0.35	U	50.0	52.6		ug/L		105	80 - 120
Methylene Chloride	2.5	U	50.0	46.8		ug/L		94	76 - 129
4-Methyl-2-pentanone	2.1	U	250	237		ug/L		95	75 - 135
Methyl tert-butyl ether	0.30	U	50.0	50.0		ug/L		100	74 - 135
m-Xylene & p-Xylene	0.35	U	50.0	50.3		ug/L		101	80 - 120
Naphthalene	2.5	U	50.0	45.8		ug/L		92	69 - 148
n-Butylbenzene	0.47	U	50.0	51.2		ug/L		102	78 - 124
N-Propylbenzene	0.38	U	50.0	51.6		ug/L		103	80 - 120
o-Xylene	0.23	U	50.0	49.8		ug/L		100	80 - 120
p-Isopropyltoluene	0.48	U	50.0	51.1		ug/L		102	80 - 120
sec-Butylbenzene	0.42	U	50.0	54.0		ug/L		108	76 - 125
Styrene	0.27	U	50.0	51.0		ug/L		102	80 - 122
tert-Butylbenzene	0.45	U	50.0	53.1		ug/L		106	80 - 120
1,1,1,2-Tetrachloroethane	0.37	U	50.0	50.8		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	96		50.0	148		ug/L		103	72 - 128
Tetrachloroethylene	0.74	U	50.0	57.6		ug/L		115	77 - 123
Toluene	0.48	U	50.0	51.3		ug/L		103	80 - 122
trans-1,4-Dichloro-2-butene	0.51	U	50.0	48.3		ug/L		97	55 - 147
trans-1,2-Dichloroethene	2.9		50.0	57.4		ug/L		109	78 - 123
trans-1,3-Dichloropropene	0.42	U	50.0	48.0		ug/L		96	74 - 140
1,2,3-Trichlorobenzene	2.5	U	50.0	50.6		ug/L		101	61 - 151
1,2,4-Trichlorobenzene	2.5	U	50.0	49.8		ug/L		100	77 - 131
1,1,1-Trichloroethane	0.37	U	50.0	54.3		ug/L		109	74 - 128
1,1,2-Trichloroethane	1.2		50.0	52.8		ug/L		103	79 - 125
Trichloroethene	48		50.0	108		ug/L		120	80 - 123
Trichlorofluoromethane	0.42	U	50.0	55.5		ug/L		111	58 - 145
1,2,3-Trichloropropane	0.39	U	50.0	48.9		ug/L		98	70 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	50.0	58.5		ug/L		117	65 - 131
1,2,4-Trimethylbenzene	0.47	U	50.0	53.0		ug/L		106	80 - 124
1,3,5-Trimethylbenzene	0.31	U	50.0	51.4		ug/L		103	80 - 120
Vinyl acetate	0.81	U	100	116		ug/L		116	15 - 190
Vinyl chloride	0.50	U	50.0	51.5		ug/L		103	68 - 132
Xylenes, Total	0.23	U	100	100		ug/L		100	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: 680-168800-2 MS

Matrix: Water

Analysis Batch: 571150

Client Sample ID: OLF-G07

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	105		80 - 122
1,2-Dichloroethane-d4 (Surr)	101		73 - 131
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: 680-168800-2 MSD

Matrix: Water

Analysis Batch: 571150

Client Sample ID: OLF-G07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	7.0	U	250	211		ug/L		84	60 - 154	4	30
Acrylonitrile	10	U	500	476		ug/L		95	72 - 132	3	20
Benzene	0.43	U	50.0	50.0		ug/L		100	73 - 131	0	20
Bromobenzene	0.50	U	50.0	50.6		ug/L		101	79 - 124	3	20
Bromochloromethane	0.45	U	50.0	48.8		ug/L		98	77 - 122	5	20
Bromodichloromethane	0.44	U	50.0	53.8		ug/L		108	77 - 129	1	20
Bromoform	0.43	U	50.0	51.2		ug/L		102	69 - 135	3	20
Bromomethane	2.5	U	50.0	31.7		ug/L		63	20 - 180	6	20
2-Butanone (MEK)	3.4	U	250	236		ug/L		94	75 - 133	2	20
Carbon disulfide	1.0	U	50.0	52.6		ug/L		105	73 - 127	3	20
Carbon tetrachloride	0.33	U	50.0	56.9		ug/L		114	75 - 130	1	20
Chlorobenzene	0.26	U	50.0	49.5		ug/L		99	80 - 120	0	20
Chloroethane	2.5	U	50.0	50.2		ug/L		100	50 - 151	1	20
Chloroform	0.50	U	50.0	51.1		ug/L		102	79 - 122	4	20
Chloromethane	0.40	U	50.0	47.3		ug/L		95	63 - 126	2	30
2-Chlorotoluene	0.27	U	50.0	48.5		ug/L		97	77 - 121	2	20
4-Chlorotoluene	0.45	U	50.0	48.0		ug/L		96	80 - 120	5	20
cis-1,2-Dichloroethene	6.6		50.0	57.5		ug/L		102	80 - 122	1	20
cis-1,3-Dichloropropene	0.40	U	50.0	50.8		ug/L		102	80 - 133	2	20
Dibromochloromethane	0.32	U	50.0	54.5		ug/L		109	71 - 136	1	20
1,2-Dibromo-3-Chloropropane	1.1	U	50.0	45.9		ug/L		92	59 - 141	2	20
1,2-Dibromoethane	0.44	U	50.0	52.6		ug/L		105	77 - 131	0	20
Dibromomethane	0.35	U	50.0	51.9		ug/L		104	80 - 122	0	20
1,2-Dichlorobenzene	0.37	U	50.0	44.5		ug/L		89	80 - 120	3	20
1,3-Dichlorobenzene	0.43	U	50.0	46.6		ug/L		93	80 - 120	1	20
1,4-Dichlorobenzene	0.46	U	50.0	47.4		ug/L		95	80 - 120	2	20
Dichlorodifluoromethane	0.60	U	50.0	50.5		ug/L		101	51 - 140	3	40
1,1-Dichloroethane	0.38	U	50.0	51.6		ug/L		103	80 - 120	1	20
1,2-Dichloroethane	0.50	U	50.0	51.8		ug/L		104	75 - 130	1	50
1,1-Dichloroethene	0.36	U	50.0	57.1		ug/L		114	74 - 125	3	20
1,2-Dichloropropane	0.67	U	50.0	52.0		ug/L		104	80 - 123	1	20
1,3-Dichloropropane	0.34	U	50.0	50.4		ug/L		101	78 - 127	0	20
2,2-Dichloropropane	0.37	U	50.0	48.0		ug/L		96	72 - 133	2	20
1,1-Dichloropropene	0.34	U	50.0	52.7		ug/L		105	78 - 127	2	20
Ethylbenzene	0.33	U	50.0	49.5		ug/L		99	80 - 120	1	20
Hexachlorobutadiene	2.5	U	50.0	58.6		ug/L		117	77 - 129	3	20
2-Hexanone	2.0	U	250	244		ug/L		98	70 - 141	4	20
Iodomethane	5.0	U	50.0	30.7		ug/L		61	15 - 162	13	30
Isopropylbenzene	0.35	U	50.0	51.0		ug/L		102	80 - 120	3	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: 680-168800-2 MSD

Matrix: Water

Analysis Batch: 571150

Client Sample ID: OLF-G07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	2.5	U	50.0	48.6		ug/L		97	76 - 129	4	20
4-Methyl-2-pentanone	2.1	U	250	241		ug/L		96	75 - 135	2	20
Methyl tert-butyl ether	0.30	U	50.0	51.1		ug/L		102	74 - 135	2	20
m-Xylene & p-Xylene	0.35	U	50.0	49.0		ug/L		98	80 - 120	3	20
Naphthalene	2.5	U	50.0	49.0		ug/L		98	69 - 148	7	20
n-Butylbenzene	0.47	U	50.0	49.0		ug/L		98	78 - 124	4	20
N-Propylbenzene	0.38	U	50.0	50.3		ug/L		101	80 - 120	3	20
o-Xylene	0.23	U	50.0	49.1		ug/L		98	80 - 120	1	30
p-Isopropyltoluene	0.48	U	50.0	51.1		ug/L		102	80 - 120	0	20
sec-Butylbenzene	0.42	U	50.0	52.0		ug/L		104	76 - 125	4	20
Styrene	0.27	U	50.0	50.1		ug/L		100	80 - 122	2	20
tert-Butylbenzene	0.45	U	50.0	50.1		ug/L		100	80 - 120	6	20
1,1,1,2-Tetrachloroethane	0.37	U	50.0	49.8		ug/L		100	80 - 120	2	20
1,1,2,2-Tetrachloroethane	96		50.0	146		ug/L		100	72 - 128	1	20
Tetrachloroethylene	0.74	U	50.0	57.9		ug/L		116	77 - 123	1	20
Toluene	0.48	U	50.0	52.5		ug/L		105	80 - 122	2	20
trans-1,4-Dichloro-2-butene	0.51	U	50.0	47.0		ug/L		94	55 - 147	3	30
trans-1,2-Dichloroethene	2.9		50.0	59.1		ug/L		112	78 - 123	3	20
trans-1,3-Dichloropropene	0.42	U	50.0	47.7		ug/L		95	74 - 140	1	30
1,2,3-Trichlorobenzene	2.5	U	50.0	51.4		ug/L		103	61 - 151	2	20
1,2,4-Trichlorobenzene	2.5	U	50.0	51.0		ug/L		102	77 - 131	2	20
1,1,1-Trichloroethane	0.37	U	50.0	52.8		ug/L		106	74 - 128	3	20
1,1,2-Trichloroethane	1.2		50.0	53.9		ug/L		105	79 - 125	2	20
Trichloroethene	48		50.0	105		ug/L		115	80 - 123	3	20
Trichlorofluoromethane	0.42	U	50.0	56.9		ug/L		114	58 - 145	2	20
1,2,3-Trichloropropane	0.39	U	50.0	47.7		ug/L		95	70 - 132	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	50.0	58.6		ug/L		117	65 - 131	0	20
1,2,4-Trimethylbenzene	0.47	U	50.0	50.4		ug/L		101	80 - 124	5	20
1,3,5-Trimethylbenzene	0.31	U	50.0	50.5		ug/L		101	80 - 120	2	20
Vinyl acetate	0.81	U	100	114		ug/L		114	15 - 190	2	20
Vinyl chloride	0.50	U	50.0	52.5		ug/L		105	68 - 132	2	20
Xylenes, Total	0.23	U	100	98.1		ug/L		98	80 - 120	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		80 - 120
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	101		73 - 131
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: MB 680-571152/9

Matrix: Water

Analysis Batch: 571152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/21/19 11:36	1
Acrylonitrile	10	U	20	10	ug/L			05/21/19 11:36	1
Benzene	0.43	U	1.0	0.43	ug/L			05/21/19 11:36	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/21/19 11:36	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: MB 680-571152/9

Matrix: Water

Analysis Batch: 571152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/21/19 11:36	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/21/19 11:36	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/21/19 11:36	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/21/19 11:36	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/21/19 11:36	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/21/19 11:36	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/21/19 11:36	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/21/19 11:36	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/21/19 11:36	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/21/19 11:36	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/21/19 11:36	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/21/19 11:36	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/21/19 11:36	1
cis-1,2-Dichloroethene	0.520	J	1.0	0.41	ug/L			05/21/19 11:36	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/21/19 11:36	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/21/19 11:36	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/21/19 11:36	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/21/19 11:36	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/21/19 11:36	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/21/19 11:36	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/21/19 11:36	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/21/19 11:36	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/21/19 11:36	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/21/19 11:36	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/21/19 11:36	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/21/19 11:36	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/21/19 11:36	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/21/19 11:36	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/21/19 11:36	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/21/19 11:36	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/21/19 11:36	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/21/19 11:36	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/21/19 11:36	1
Iodomethane	5.0	U	10	5.0	ug/L			05/21/19 11:36	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/21/19 11:36	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/21/19 11:36	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/21/19 11:36	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/21/19 11:36	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/21/19 11:36	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/21/19 11:36	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/21/19 11:36	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/21/19 11:36	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/21/19 11:36	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/21/19 11:36	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/21/19 11:36	1
Styrene	0.27	U	1.0	0.27	ug/L			05/21/19 11:36	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/21/19 11:36	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/21/19 11:36	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/21/19 11:36	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: MB 680-571152/9

Matrix: Water

Analysis Batch: 571152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/21/19 11:36	1
Toluene	0.48	U	1.0	0.48	ug/L			05/21/19 11:36	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/21/19 11:36	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/21/19 11:36	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/21/19 11:36	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/21/19 11:36	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/21/19 11:36	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/21/19 11:36	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/21/19 11:36	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/21/19 11:36	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/21/19 11:36	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/21/19 11:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/21/19 11:36	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/21/19 11:36	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/21/19 11:36	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/21/19 11:36	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/21/19 11:36	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/21/19 11:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		05/21/19 11:36	1
Dibromofluoromethane (Surr)	103		80 - 122		05/21/19 11:36	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131		05/21/19 11:36	1
Toluene-d8 (Surr)	103		80 - 120		05/21/19 11:36	1

Lab Sample ID: LCS 680-571152/4

Matrix: Water

Analysis Batch: 571152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	251		ug/L		100	70 - 135
Acrylonitrile	500	493		ug/L		99	80 - 123
Benzene	50.0	49.3		ug/L		99	80 - 120
Bromobenzene	50.0	49.8		ug/L		100	80 - 121
Bromochloromethane	50.0	52.2		ug/L		104	80 - 120
Bromodichloromethane	50.0	52.4		ug/L		105	80 - 120
Bromoform	50.0	53.9		ug/L		108	74 - 126
Bromomethane	50.0	44.5		ug/L		89	62 - 130
2-Butanone (MEK)	250	278		ug/L		111	80 - 131
Carbon disulfide	50.0	47.5		ug/L		95	80 - 120
Carbon tetrachloride	50.0	49.9		ug/L		100	76 - 123
Chlorobenzene	50.0	49.6		ug/L		99	80 - 120
Chloroethane	50.0	46.4		ug/L		93	66 - 135
Chloroform	50.0	52.5		ug/L		105	80 - 120
Chloromethane	50.0	46.1		ug/L		92	69 - 131
2-Chlorotoluene	50.0	49.0		ug/L		98	80 - 120
4-Chlorotoluene	50.0	49.8		ug/L		100	80 - 120
cis-1,2-Dichloroethene	50.0	51.4		ug/L		103	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCS 680-571152/4

Matrix: Water

Analysis Batch: 571152

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	50.0	54.0		ug/L		108	80 - 120
Dibromochloromethane	50.0	54.3		ug/L		109	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	51.9		ug/L		104	71 - 134
1,2-Dibromoethane	50.0	52.7		ug/L		105	80 - 120
Dibromomethane	50.0	52.5		ug/L		105	80 - 120
1,2-Dichlorobenzene	50.0	47.1		ug/L		94	80 - 120
1,3-Dichlorobenzene	50.0	46.6		ug/L		93	80 - 120
1,4-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120
Dichlorodifluoromethane	50.0	39.4		ug/L		79	47 - 155
1,1-Dichloroethane	50.0	50.4		ug/L		101	80 - 120
1,2-Dichloroethane	50.0	52.7		ug/L		105	80 - 120
1,1-Dichloroethene	50.0	49.2		ug/L		98	76 - 120
1,2-Dichloropropane	50.0	49.4		ug/L		99	80 - 120
1,3-Dichloropropane	50.0	51.8		ug/L		104	80 - 120
2,2-Dichloropropane	50.0	52.9		ug/L		106	76 - 126
1,1-Dichloropropene	50.0	47.6		ug/L		95	80 - 120
Ethylbenzene	50.0	48.2		ug/L		96	80 - 120
Hexachlorobutadiene	50.0	46.3		ug/L		93	60 - 140
2-Hexanone	250	258		ug/L		103	74 - 127
Iodomethane	50.0	48.7		ug/L		97	52 - 142
Isopropylbenzene	50.0	49.2		ug/L		98	80 - 120
Methylene Chloride	50.0	49.2		ug/L		98	80 - 120
4-Methyl-2-pentanone	250	262		ug/L		105	76 - 124
Methyl tert-butyl ether	50.0	52.0		ug/L		104	80 - 120
m-Xylene & p-Xylene	50.0	48.9		ug/L		98	80 - 120
Naphthalene	50.0	50.0		ug/L		100	59 - 140
n-Butylbenzene	50.0	46.2		ug/L		92	80 - 120
N-Propylbenzene	50.0	48.8		ug/L		98	80 - 120
o-Xylene	50.0	49.3		ug/L		99	80 - 120
p-Isopropyltoluene	50.0	46.3		ug/L		93	80 - 120
sec-Butylbenzene	50.0	48.6		ug/L		97	80 - 120
Styrene	50.0	50.3		ug/L		101	80 - 120
tert-Butylbenzene	50.0	49.1		ug/L		98	80 - 121
1,1,1,2-Tetrachloroethane	50.0	52.8		ug/L		106	80 - 121
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L		102	80 - 120
Tetrachloroethylene	50.0	49.2		ug/L		98	80 - 121
Toluene	50.0	51.3		ug/L		103	80 - 113
trans-1,4-Dichloro-2-butene	50.0	53.7		ug/L		107	68 - 125
trans-1,2-Dichloroethene	50.0	49.5		ug/L		99	80 - 120
trans-1,3-Dichloropropene	50.0	54.6		ug/L		109	80 - 120
1,2,3-Trichlorobenzene	50.0	47.5		ug/L		95	61 - 141
1,2,4-Trichlorobenzene	50.0	47.7		ug/L		95	68 - 128
1,1,1-Trichloroethane	50.0	50.5		ug/L		101	80 - 120
1,1,2-Trichloroethane	50.0	53.1		ug/L		106	80 - 120
Trichloroethene	50.0	50.4		ug/L		101	80 - 120
Trichlorofluoromethane	50.0	48.2		ug/L		96	60 - 141
1,2,3-Trichloropropane	50.0	52.1		ug/L		104	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.5		ug/L		95	79 - 124

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCS 680-571152/4

Matrix: Water

Analysis Batch: 571152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	50.0	49.1		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	50.0	49.6		ug/L		99	80 - 120
Vinyl acetate	100	105		ug/L		105	67 - 135
Vinyl chloride	50.0	44.9		ug/L		90	71 - 128
Xylenes, Total	100	98.2		ug/L		98	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	101		73 - 131
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 680-571152/5

Matrix: Water

Analysis Batch: 571152

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	253		ug/L		101	70 - 135	1	30
Acrylonitrile	500	498		ug/L		100	80 - 123	1	20
Benzene	50.0	50.3		ug/L		101	80 - 120	2	20
Bromobenzene	50.0	50.6		ug/L		101	80 - 121	1	20
Bromochloromethane	50.0	51.0		ug/L		102	80 - 120	2	20
Bromodichloromethane	50.0	52.5		ug/L		105	80 - 120	0	20
Bromoform	50.0	54.5		ug/L		109	74 - 126	1	20
Bromomethane	50.0	49.4		ug/L		99	62 - 130	11	20
2-Butanone (MEK)	250	268		ug/L		107	80 - 131	4	20
Carbon disulfide	50.0	49.5		ug/L		99	80 - 120	4	20
Carbon tetrachloride	50.0	52.8		ug/L		106	76 - 123	6	20
Chlorobenzene	50.0	50.5		ug/L		101	80 - 120	2	20
Chloroethane	50.0	48.4		ug/L		97	66 - 135	4	20
Chloroform	50.0	52.4		ug/L		105	80 - 120	0	20
Chloromethane	50.0	47.3		ug/L		95	69 - 131	3	30
2-Chlorotoluene	50.0	50.4		ug/L		101	80 - 120	3	20
4-Chlorotoluene	50.0	50.1		ug/L		100	80 - 120	0	20
cis-1,2-Dichloroethene	50.0	52.6		ug/L		105	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	54.0		ug/L		108	80 - 120	0	20
Dibromochloromethane	50.0	54.1		ug/L		108	80 - 121	0	20
1,2-Dibromo-3-Chloropropane	50.0	53.1		ug/L		106	71 - 134	2	20
1,2-Dibromoethane	50.0	52.8		ug/L		106	80 - 120	0	20
Dibromomethane	50.0	53.0		ug/L		106	80 - 120	1	20
1,2-Dichlorobenzene	50.0	48.2		ug/L		96	80 - 120	2	20
1,3-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120	4	20
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120	2	20
Dichlorodifluoromethane	50.0	44.3		ug/L		89	47 - 155	12	40
1,1-Dichloroethane	50.0	50.7		ug/L		101	80 - 120	0	20
1,2-Dichloroethane	50.0	52.1		ug/L		104	80 - 120	1	50
1,1-Dichloroethene	50.0	52.2		ug/L		104	76 - 120	6	20
1,2-Dichloropropane	50.0	49.6		ug/L		99	80 - 120	0	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCSD 680-571152/5

Matrix: Water

Analysis Batch: 571152

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
1,3-Dichloropropane	50.0	51.8		ug/L		104	80 - 120	0	20
2,2-Dichloropropane	50.0	55.8		ug/L		112	76 - 126	5	20
1,1-Dichloropropene	50.0	50.7		ug/L		101	80 - 120	6	20
Ethylbenzene	50.0	50.4		ug/L		101	80 - 120	4	20
Hexachlorobutadiene	50.0	50.5		ug/L		101	60 - 140	9	20
2-Hexanone	250	259		ug/L		104	74 - 127	1	20
Iodomethane	50.0	50.9		ug/L		102	52 - 142	4	30
Isopropylbenzene	50.0	51.4		ug/L		103	80 - 120	4	20
Methylene Chloride	50.0	49.1		ug/L		98	80 - 120	0	20
4-Methyl-2-pentanone	250	258		ug/L		103	76 - 124	2	20
Methyl tert-butyl ether	50.0	51.6		ug/L		103	80 - 120	1	20
m-Xylene & p-Xylene	50.0	50.3		ug/L		101	80 - 120	3	20
Naphthalene	50.0	51.4		ug/L		103	59 - 140	3	20
n-Butylbenzene	50.0	49.1		ug/L		98	80 - 120	6	20
N-Propylbenzene	50.0	50.2		ug/L		100	80 - 120	3	20
o-Xylene	50.0	50.4		ug/L		101	80 - 120	2	30
p-Isopropyltoluene	50.0	49.1		ug/L		98	80 - 120	6	20
sec-Butylbenzene	50.0	51.3		ug/L		103	80 - 120	5	20
Styrene	50.0	51.4		ug/L		103	80 - 120	2	20
tert-Butylbenzene	50.0	51.6		ug/L		103	80 - 121	5	20
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/L		106	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	80 - 120	0	20
Tetrachloroethylene	50.0	52.6		ug/L		105	80 - 121	7	20
Toluene	50.0	51.4		ug/L		103	80 - 113	0	20
trans-1,4-Dichloro-2-butene	50.0	55.6		ug/L		111	68 - 125	3	30
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	54.2		ug/L		108	80 - 120	1	30
1,2,3-Trichlorobenzene	50.0	49.6		ug/L		99	61 - 141	4	20
1,2,4-Trichlorobenzene	50.0	48.9		ug/L		98	68 - 128	2	20
1,1,1-Trichloroethane	50.0	52.1		ug/L		104	80 - 120	3	20
1,1,2-Trichloroethane	50.0	52.6		ug/L		105	80 - 120	1	20
Trichloroethene	50.0	51.2		ug/L		102	80 - 120	2	20
Trichlorofluoromethane	50.0	52.4		ug/L		105	60 - 141	8	20
1,2,3-Trichloropropane	50.0	54.2		ug/L		108	80 - 123	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.1		ug/L		104	79 - 124	9	20
1,2,4-Trimethylbenzene	50.0	50.3		ug/L		101	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	51.0		ug/L		102	80 - 120	3	20
Vinyl acetate	100	106		ug/L		106	67 - 135	0	20
Vinyl chloride	50.0	47.4		ug/L		95	71 - 128	5	20
Xylenes, Total	100	101		ug/L		101	80 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	98		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: MB 680-571246/10

Matrix: Water

Analysis Batch: 571246

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/22/19 00:25	1
Acrylonitrile	10	U	20	10	ug/L			05/22/19 00:25	1
Benzene	0.43	U	1.0	0.43	ug/L			05/22/19 00:25	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/22/19 00:25	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/22/19 00:25	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/22/19 00:25	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/22/19 00:25	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/22/19 00:25	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/22/19 00:25	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/22/19 00:25	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/22/19 00:25	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/22/19 00:25	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/22/19 00:25	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/22/19 00:25	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/22/19 00:25	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/22/19 00:25	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/22/19 00:25	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/22/19 00:25	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/22/19 00:25	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/22/19 00:25	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/22/19 00:25	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/22/19 00:25	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/22/19 00:25	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/22/19 00:25	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/22/19 00:25	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/22/19 00:25	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/22/19 00:25	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/22/19 00:25	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/22/19 00:25	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/22/19 00:25	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/22/19 00:25	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/22/19 00:25	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/22/19 00:25	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/22/19 00:25	1
Iodomethane	5.0	U	10	5.0	ug/L			05/22/19 00:25	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/22/19 00:25	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/22/19 00:25	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/22/19 00:25	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/22/19 00:25	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 00:25	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/22/19 00:25	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/22/19 00:25	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/22/19 00:25	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: MB 680-571246/10

Matrix: Water

Analysis Batch: 571246

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/22/19 00:25	1
Styrene	0.27	U	1.0	0.27	ug/L			05/22/19 00:25	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/22/19 00:25	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 00:25	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/22/19 00:25	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/22/19 00:25	1
Toluene	0.48	U	1.0	0.48	ug/L			05/22/19 00:25	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/22/19 00:25	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/22/19 00:25	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/22/19 00:25	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/22/19 00:25	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/22/19 00:25	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/22/19 00:25	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/22/19 00:25	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/22/19 00:25	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/22/19 00:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/22/19 00:25	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/22/19 00:25	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/22/19 00:25	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/22/19 00:25	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/22/19 00:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/22/19 00:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/22/19 00:25	1
Dibromofluoromethane (Surr)	102		80 - 122		05/22/19 00:25	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/22/19 00:25	1
Toluene-d8 (Surr)	102		80 - 120		05/22/19 00:25	1

Lab Sample ID: LCS 680-571246/5

Matrix: Water

Analysis Batch: 571246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	263		ug/L		105	70 - 135
Acrylonitrile	500	508		ug/L		102	80 - 123
Benzene	50.0	49.6		ug/L		99	80 - 120
Bromobenzene	50.0	51.3		ug/L		103	80 - 121
Bromochloromethane	50.0	51.0		ug/L		102	80 - 120
Bromodichloromethane	50.0	53.8		ug/L		108	80 - 120
Bromoform	50.0	54.6		ug/L		109	74 - 126
Bromomethane	50.0	38.7		ug/L		77	62 - 130
2-Butanone (MEK)	250	281		ug/L		112	80 - 131
Carbon disulfide	50.0	48.2		ug/L		96	80 - 120
Carbon tetrachloride	50.0	51.9		ug/L		104	76 - 123
Chlorobenzene	50.0	50.2		ug/L		100	80 - 120
Chloroethane	50.0	48.4		ug/L		97	66 - 135

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCS 680-571246/5

Matrix: Water

Analysis Batch: 571246

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	53.0		ug/L		106	80 - 120
Chloromethane	50.0	45.5		ug/L		91	69 - 131
2-Chlorotoluene	50.0	49.9		ug/L		100	80 - 120
4-Chlorotoluene	50.0	49.1		ug/L		98	80 - 120
cis-1,2-Dichloroethene	50.0	49.3		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	51.8		ug/L		104	80 - 120
Dibromochloromethane	50.0	54.7		ug/L		109	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	55.7		ug/L		111	71 - 134
1,2-Dibromoethane	50.0	53.1		ug/L		106	80 - 120
Dibromomethane	50.0	52.6		ug/L		105	80 - 120
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120
1,3-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120
1,4-Dichlorobenzene	50.0	48.6		ug/L		97	80 - 120
Dichlorodifluoromethane	50.0	38.6		ug/L		77	47 - 155
1,1-Dichloroethane	50.0	50.3		ug/L		101	80 - 120
1,2-Dichloroethane	50.0	52.1		ug/L		104	80 - 120
1,1-Dichloroethene	50.0	50.2		ug/L		100	76 - 120
1,2-Dichloropropane	50.0	49.9		ug/L		100	80 - 120
1,3-Dichloropropane	50.0	52.0		ug/L		104	80 - 120
2,2-Dichloropropane	50.0	41.0		ug/L		82	76 - 126
1,1-Dichloropropene	50.0	48.4		ug/L		97	80 - 120
Ethylbenzene	50.0	49.8		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	45.2		ug/L		90	60 - 140
2-Hexanone	250	265		ug/L		106	74 - 127
Iodomethane	50.0	48.6		ug/L		97	52 - 142
Isopropylbenzene	50.0	50.9		ug/L		102	80 - 120
Methylene Chloride	50.0	49.3		ug/L		99	80 - 120
4-Methyl-2-pentanone	250	268		ug/L		107	76 - 124
Methyl tert-butyl ether	50.0	52.0		ug/L		104	80 - 120
m-Xylene & p-Xylene	50.0	49.5		ug/L		99	80 - 120
Naphthalene	50.0	51.8		ug/L		104	59 - 140
n-Butylbenzene	50.0	45.7		ug/L		91	80 - 120
N-Propylbenzene	50.0	49.0		ug/L		98	80 - 120
o-Xylene	50.0	50.1		ug/L		100	80 - 120
p-Isopropyltoluene	50.0	47.7		ug/L		95	80 - 120
sec-Butylbenzene	50.0	48.9		ug/L		98	80 - 120
Styrene	50.0	51.1		ug/L		102	80 - 120
tert-Butylbenzene	50.0	50.4		ug/L		101	80 - 121
1,1,1,2-Tetrachloroethane	50.0	54.4		ug/L		109	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.7		ug/L		101	80 - 120
Tetrachloroethylene	50.0	50.3		ug/L		101	80 - 121
Toluene	50.0	51.5		ug/L		103	80 - 113
trans-1,4-Dichloro-2-butene	50.0	50.6		ug/L		101	68 - 125
trans-1,2-Dichloroethene	50.0	50.0		ug/L		100	80 - 120
trans-1,3-Dichloropropene	50.0	51.8		ug/L		104	80 - 120
1,2,3-Trichlorobenzene	50.0	49.2		ug/L		98	61 - 141
1,2,4-Trichlorobenzene	50.0	47.6		ug/L		95	68 - 128
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCS 680-571246/5

Matrix: Water

Analysis Batch: 571246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	51.3		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	48.2		ug/L		96	60 - 141
1,2,3-Trichloropropane	50.0	54.0		ug/L		108	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.3		ug/L		91	79 - 124
1,2,4-Trimethylbenzene	50.0	49.1		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	50.0	49.3		ug/L		99	80 - 120
Vinyl acetate	100	87.6		ug/L		88	67 - 135
Vinyl chloride	50.0	45.6		ug/L		91	71 - 128
Xylenes, Total	100	99.6		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	102		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 680-571246/6

Matrix: Water

Analysis Batch: 571246

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	248		ug/L		99	70 - 135	6	30
Acrylonitrile	500	481		ug/L		96	80 - 123	5	20
Benzene	50.0	49.9		ug/L		100	80 - 120	1	20
Bromobenzene	50.0	50.4		ug/L		101	80 - 121	2	20
Bromochloromethane	50.0	49.9		ug/L		100	80 - 120	2	20
Bromodichloromethane	50.0	52.1		ug/L		104	80 - 120	3	20
Bromoform	50.0	53.2		ug/L		106	74 - 126	3	20
Bromomethane	50.0	40.3		ug/L		81	62 - 130	4	20
2-Butanone (MEK)	250	267		ug/L		107	80 - 131	5	20
Carbon disulfide	50.0	48.3		ug/L		97	80 - 120	0	20
Carbon tetrachloride	50.0	53.1		ug/L		106	76 - 123	2	20
Chlorobenzene	50.0	50.0		ug/L		100	80 - 120	0	20
Chloroethane	50.0	48.4		ug/L		97	66 - 135	0	20
Chloroform	50.0	51.7		ug/L		103	80 - 120	3	20
Chloromethane	50.0	45.9		ug/L		92	69 - 131	1	30
2-Chlorotoluene	50.0	49.6		ug/L		99	80 - 120	0	20
4-Chlorotoluene	50.0	49.1		ug/L		98	80 - 120	0	20
cis-1,2-Dichloroethene	50.0	48.4		ug/L		97	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	51.1		ug/L		102	80 - 120	1	20
Dibromochloromethane	50.0	53.4		ug/L		107	80 - 121	2	20
1,2-Dibromo-3-Chloropropane	50.0	53.4		ug/L		107	71 - 134	4	20
1,2-Dibromoethane	50.0	50.7		ug/L		101	80 - 120	5	20
Dibromomethane	50.0	50.3		ug/L		101	80 - 120	4	20
1,2-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120	1	20
1,3-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 120	1	20
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120	0	20
Dichlorodifluoromethane	50.0	43.1		ug/L		86	47 - 155	11	40

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCSD 680-571246/6

Matrix: Water

Analysis Batch: 571246

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	50.6		ug/L		101	80 - 120	1	20
1,2-Dichloroethane	50.0	50.7		ug/L		101	80 - 120	3	50
1,1-Dichloroethene	50.0	51.8		ug/L		104	76 - 120	3	20
1,2-Dichloropropane	50.0	49.0		ug/L		98	80 - 120	2	20
1,3-Dichloropropane	50.0	50.6		ug/L		101	80 - 120	3	20
2,2-Dichloropropane	50.0	40.9		ug/L		82	76 - 126	0	20
1,1-Dichloropropene	50.0	50.1		ug/L		100	80 - 120	3	20
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120	0	20
Hexachlorobutadiene	50.0	48.2		ug/L		96	60 - 140	6	20
2-Hexanone	250	249		ug/L		99	74 - 127	6	20
Iodomethane	50.0	48.7		ug/L		97	52 - 142	0	30
Isopropylbenzene	50.0	50.8		ug/L		102	80 - 120	0	20
Methylene Chloride	50.0	47.8		ug/L		96	80 - 120	3	20
4-Methyl-2-pentanone	250	253		ug/L		101	76 - 124	6	20
Methyl tert-butyl ether	50.0	50.0		ug/L		100	80 - 120	4	20
m-Xylene & p-Xylene	50.0	49.6		ug/L		99	80 - 120	0	20
Naphthalene	50.0	51.5		ug/L		103	59 - 140	1	20
n-Butylbenzene	50.0	47.8		ug/L		96	80 - 120	5	20
N-Propylbenzene	50.0	49.6		ug/L		99	80 - 120	1	20
o-Xylene	50.0	50.1		ug/L		100	80 - 120	0	30
p-Isopropyltoluene	50.0	49.6		ug/L		99	80 - 120	4	20
sec-Butylbenzene	50.0	50.4		ug/L		101	80 - 120	3	20
Styrene	50.0	50.5		ug/L		101	80 - 120	1	20
tert-Butylbenzene	50.0	50.3		ug/L		101	80 - 121	0	20
1,1,1,2-Tetrachloroethane	50.0	52.0		ug/L		104	80 - 121	5	20
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/L		96	80 - 120	5	20
Tetrachloroethylene	50.0	51.8		ug/L		104	80 - 121	3	20
Toluene	50.0	51.0		ug/L		102	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	48.7		ug/L		97	68 - 125	4	30
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 120	0	20
trans-1,3-Dichloropropene	50.0	49.8		ug/L		100	80 - 120	4	30
1,2,3-Trichlorobenzene	50.0	49.6		ug/L		99	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	48.0		ug/L		96	68 - 128	1	20
1,1,1-Trichloroethane	50.0	51.6		ug/L		103	80 - 120	1	20
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	80 - 120	2	20
Trichloroethene	50.0	52.8		ug/L		106	80 - 120	3	20
Trichlorofluoromethane	50.0	51.7		ug/L		103	60 - 141	7	20
1,2,3-Trichloropropane	50.0	51.9		ug/L		104	80 - 123	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9		ug/L		102	79 - 124	12	20
1,2,4-Trimethylbenzene	50.0	49.9		ug/L		100	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	80 - 120	1	20
Vinyl acetate	100	83.9		ug/L		84	67 - 135	4	20
Vinyl chloride	50.0	46.6		ug/L		93	71 - 128	2	20
Xylenes, Total	100	99.7		ug/L		100	80 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCSD 680-571246/6

Matrix: Water

Analysis Batch: 571246

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	99		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-570592/8

Matrix: Water

Analysis Batch: 570592

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Ethane	0.55	U	1.1	0.55	ug/L			05/16/19 11:52	1	
Ethylene	0.50	U	1.0	0.50	ug/L			05/16/19 11:52	1	
Methane	0.29	U	0.58	0.29	ug/L			05/16/19 11:52	1	

Lab Sample ID: LCS 680-570592/3

Matrix: Water

Analysis Batch: 570592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethane	288	262		ug/L		91	75 - 125		
Ethylene	269	241		ug/L		90	75 - 125		
Methane	154	133		ug/L		87	75 - 125		

Lab Sample ID: LCSD 680-570592/4

Matrix: Water

Analysis Batch: 570592

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Ethane	288	280		ug/L		97	75 - 125	7	30	
Ethylene	269	256		ug/L		95	75 - 125	6	30	
Methane	154	142		ug/L		92	75 - 125	6	30	

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-571368/13

Matrix: Water

Analysis Batch: 571368

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Sulfate	0.40	U	1.0	0.40	mg/L			05/22/19 15:36	1	

Lab Sample ID: LCS 680-571368/14

Matrix: Water

Analysis Batch: 571368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Sulfate	10.0	10.6		mg/L		106	87 - 112		

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

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

Lab Sample ID: LCSD 680-571368/15

Matrix: Water

Analysis Batch: 571368

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	10.7		mg/L		107	87 - 112	1	15

Lab Sample ID: 680-168800-2 MS

Matrix: Water

Analysis Batch: 571368

Client Sample ID: OLF-G07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	1.2		10.0	11.3		mg/L		101	87 - 112		

Lab Sample ID: 680-168800-2 MSD

Matrix: Water

Analysis Batch: 571368

Client Sample ID: OLF-G07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1.2		10.0	11.3		mg/L		101	87 - 112	0	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-571070/1-B

Matrix: Water

Analysis Batch: 571174

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 571071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Dissolved Sodium	480	U	1000	480	ug/L		05/20/19 11:07	05/20/19 22:34		1

Lab Sample ID: LCS 680-571070/2-B

Matrix: Water

Analysis Batch: 571174

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 571071

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Sodium			5000	4820		ug/L		96	80 - 120		

Lab Sample ID: 680-168800-2 MS

Matrix: Water

Analysis Batch: 571174

Client Sample ID: OLF-G07

Prep Type: Dissolved

Prep Batch: 571071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Sodium	3800		5000	8480		ug/L		93	75 - 125		

Lab Sample ID: 680-168800-2 MSD

Matrix: Water

Analysis Batch: 571174

Client Sample ID: OLF-G07

Prep Type: Dissolved

Prep Batch: 571071

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Sodium	3800		5000	8210		ug/L		87	75 - 125	3	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-570575/2

Matrix: Water

Analysis Batch: 570575

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/15/19 22:47	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/15/19 22:47	1

Lab Sample ID: LCS 680-570575/3

Matrix: Water

Analysis Batch: 570575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	19.7		mg/L		98	80 - 120
Total Organic Carbon - Quad	20.0	19.7		mg/L		98	80 - 120
TOC Result 1	20.0	19.2		mg/L		96	80 - 120
TOC Result 2	20.0	19.7		mg/L		98	80 - 120
TOC Result 3	20.0	19.8		mg/L		99	80 - 120
TOC Result 4	20.0	19.9		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-570575/4

Matrix: Water

Analysis Batch: 570575

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.7		mg/L		99	80 - 120	0	25
Total Organic Carbon - Quad	20.0	19.7		mg/L		99	80 - 120	0	25
TOC Result 1	20.0	19.4		mg/L		97	80 - 120	1	25
TOC Result 2	20.0	19.7		mg/L		99	80 - 120	0	25
TOC Result 3	20.0	19.8		mg/L		99	80 - 120	0	25
TOC Result 4	20.0	20.1		mg/L		100	80 - 120	1	25

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

GC/MS VOA

Analysis Batch: 570981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-1	OLF-G78	Total/NA	Water	8260B	
680-168800-3	OLF-G77	Total/NA	Water	8260B	
680-168800-6	DUP #323	Total/NA	Water	8260B	
MB 680-570981/9	Method Blank	Total/NA	Water	8260B	
LCS 680-570981/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-570981/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 571004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-3 - DL	OLF-G77	Total/NA	Water	8260B	
680-168800-6 - DL	DUP #323	Total/NA	Water	8260B	
MB 680-571004/9	Method Blank	Total/NA	Water	8260B	
LCS 680-571004/1003	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-571004/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 571150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-2	OLF-G07	Total/NA	Water	8260B	
MB 680-571150/9	Method Blank	Total/NA	Water	8260B	
LCS 680-571150/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-571150/5	Lab Control Sample Dup	Total/NA	Water	8260B	
680-168800-2 MS	OLF-G07	Total/NA	Water	8260B	
680-168800-2 MSD	OLF-G07	Total/NA	Water	8260B	

Analysis Batch: 571152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-5	OLF-G20	Total/NA	Water	8260B	
MB 680-571152/9	Method Blank	Total/NA	Water	8260B	
LCS 680-571152/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-571152/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 571246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-8	TB #530	Total/NA	Water	8260B	
MB 680-571246/10	Method Blank	Total/NA	Water	8260B	
LCS 680-571246/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-571246/6	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 570592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-3	OLF-G77	Total/NA	Water	RSK-175	
680-168800-6	DUP #323	Total/NA	Water	RSK-175	
MB 680-570592/8	Method Blank	Total/NA	Water	RSK-175	
LCS 680-570592/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-570592/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

HPLC/IC

Analysis Batch: 571368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-1	OLF-G78	Total/NA	Water	9056A	
680-168800-2	OLF-G07	Total/NA	Water	9056A	
680-168800-3	OLF-G77	Total/NA	Water	9056A	
680-168800-4	OLF-G08	Total/NA	Water	9056A	
680-168800-5	OLF-G20	Total/NA	Water	9056A	
680-168800-6	DUP #323	Total/NA	Water	9056A	
680-168800-7	OLF-G06	Total/NA	Water	9056A	
MB 680-571368/13	Method Blank	Total/NA	Water	9056A	
LCS 680-571368/14	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-571368/15	Lab Control Sample Dup	Total/NA	Water	9056A	
680-168800-2 MS	OLF-G07	Total/NA	Water	9056A	
680-168800-2 MSD	OLF-G07	Total/NA	Water	9056A	

Metals

Filtration Batch: 571070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-1	OLF-G78	Dissolved	Water	FILTRATION	
680-168800-2	OLF-G07	Dissolved	Water	FILTRATION	
680-168800-3	OLF-G77	Dissolved	Water	FILTRATION	
680-168800-4	OLF-G08	Dissolved	Water	FILTRATION	
680-168800-5	OLF-G20	Dissolved	Water	FILTRATION	
680-168800-6	DUP #323	Dissolved	Water	FILTRATION	
680-168800-7	OLF-G06	Dissolved	Water	FILTRATION	
MB 680-571070/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-571070/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
680-168800-2 MS	OLF-G07	Dissolved	Water	FILTRATION	
680-168800-2 MSD	OLF-G07	Dissolved	Water	FILTRATION	

Prep Batch: 571071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-1	OLF-G78	Dissolved	Water	3005A	571070
680-168800-2	OLF-G07	Dissolved	Water	3005A	571070
680-168800-3	OLF-G77	Dissolved	Water	3005A	571070
680-168800-4	OLF-G08	Dissolved	Water	3005A	571070
680-168800-5	OLF-G20	Dissolved	Water	3005A	571070
680-168800-6	DUP #323	Dissolved	Water	3005A	571070
680-168800-7	OLF-G06	Dissolved	Water	3005A	571070
MB 680-571070/1-B	Method Blank	Dissolved	Water	3005A	571070
LCS 680-571070/2-B	Lab Control Sample	Dissolved	Water	3005A	571070
680-168800-2 MS	OLF-G07	Dissolved	Water	3005A	571070
680-168800-2 MSD	OLF-G07	Dissolved	Water	3005A	571070

Analysis Batch: 571174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-1	OLF-G78	Dissolved	Water	6010C	571071
680-168800-2	OLF-G07	Dissolved	Water	6010C	571071
680-168800-3	OLF-G77	Dissolved	Water	6010C	571071
680-168800-4	OLF-G08	Dissolved	Water	6010C	571071
680-168800-5	OLF-G20	Dissolved	Water	6010C	571071
680-168800-6	DUP #323	Dissolved	Water	6010C	571071

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QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Metals (Continued)

Analysis Batch: 571174 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-7	OLF-G06	Dissolved	Water	6010C	571071
MB 680-571070/1-B	Method Blank	Dissolved	Water	6010C	571071
LCS 680-571070/2-B	Lab Control Sample	Dissolved	Water	6010C	571071
680-168800-2 MS	OLF-G07	Dissolved	Water	6010C	571071
680-168800-2 MSD	OLF-G07	Dissolved	Water	6010C	571071

General Chemistry

Analysis Batch: 570575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168800-3	OLF-G77	Total/NA	Water	9060A	
680-168800-6	DUP #323	Total/NA	Water	9060A	
MB 680-570575/2	Method Blank	Total/NA	Water	9060A	
LCS 680-570575/3	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-570575/4	Lab Control Sample Dup	Total/NA	Water	9060A	

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G78

Lab Sample ID: 680-168800-1

Date Collected: 05/06/19 12:46

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	570981	05/19/19 18:17	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 21:53	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/21/19 00:27	BWR	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G07

Lab Sample ID: 680-168800-2

Date Collected: 05/07/19 10:31

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571150	05/21/19 16:18	Y1S	TAL SAV
		Instrument ID: CMSC								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 17:40	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/20/19 22:43	BWR	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G77

Lab Sample ID: 680-168800-3

Date Collected: 05/06/19 14:06

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	10	5 mL	5 mL	571004	05/20/19 16:22	SMP	TAL SAV
		Instrument ID: CMSA2								
Total/NA	Analysis	8260B		1	5 mL	5 mL	570981	05/19/19 19:03	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570592	05/16/19 16:44	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 22:06	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/21/19 00:36	BWR	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	570575	05/16/19 06:44	KDM	TAL SAV
		Instrument ID: TOC7								

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Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G08

Lab Sample ID: 680-168800-4

Date Collected: 05/07/19 15:26

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 22:19	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/21/19 00:22	BWR	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G20

Lab Sample ID: 680-168800-5

Date Collected: 05/07/19 13:46

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571152	05/21/19 17:26	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 22:31	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/21/19 00:50	BWR	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: DUP #323

Lab Sample ID: 680-168800-6

Date Collected: 05/06/19 00:00

Matrix: Water

Date Received: 05/09/19 09:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	10	5 mL	5 mL	571004	05/20/19 16:00	SMP	TAL SAV
		Instrument ID: CMSA2								
Total/NA	Analysis	8260B		1	5 mL	5 mL	570981	05/19/19 19:27	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	570592	05/16/19 16:56	KAB	TAL SAV
		Instrument ID: CVGU								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 22:44	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/21/19 00:46	BWR	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	570575	05/16/19 07:03	KDM	TAL SAV
		Instrument ID: TOC7								

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Client Sample ID: OLF-G06

Date Collected: 05/06/19 10:06

Date Received: 05/09/19 09:32

Lab Sample ID: 680-168800-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A		1	5 mL	5 mL	571368	05/22/19 22:57	UI	TAL SAV
Instrument ID: CICK										
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571070	05/20/19 11:05	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571071	05/20/19 11:07	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571174	05/21/19 00:41	BWR	TAL SAV
Instrument ID: ICPE										

Client Sample ID: TB #530

Date Collected: 05/08/19 15:20

Date Received: 05/09/19 09:32

Lab Sample ID: 680-168800-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571246	05/22/19 01:11	Y1S	TAL SAV
Instrument ID: CMSP2										

Laboratory References:

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

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Laboratory: Eurofins TestAmerica, Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-19 *
Alaska	State Program	10		06-30-19 *
Alaska (UST)	State Program	10	UST-104	09-22-19
ANAB	DoD		L2463	09-22-19
ANAB	ISO/IEC 17025		L2463.01	09-22-19
Arizona	State Program	9	AZ0808	12-14-19
Arkansas DEQ	State Program	6	88-0692	02-01-20
California	State Program	9	2939	06-30-19 *
Colorado	State Program	8	N/A	12-31-19
Connecticut	State Program	1	PH-0161	03-31-21
GA Dept. of Agriculture	State Program	4	N/A	06-12-19
Georgia	State Program	4	N/A	06-30-19 *
Georgia	State Program	4	803	06-30-19 *
Guam	State Program	9	15-005r	04-17-20
Hawaii	State Program	9	N/A	06-30-19
Illinois	NELAP	5	200022	11-30-19
Indiana	State Program	5	N/A	06-30-19 *
Iowa	State Program	7	353	06-30-19 *
Kentucky (DW)	State Program	4	90084	12-31-19
Kentucky (UST)	State Program	4	18	06-30-19
Kentucky (WW)	State Program	4	90084	12-31-19
Louisiana	NELAP	6	30690	06-30-19
Louisiana (DW)	NELAP	6	LA160019	12-31-19
Maine	State Program	1	GA00006	09-25-20
Maryland	State Program	3	250	12-31-19
Massachusetts	State Program	1	M-GA006	06-30-19 *
Michigan	State Program	5	9925	06-30-19
Mississippi	State Program	4	N/A	06-30-19 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-19 *
New Jersey	NELAP	2	GA769	06-30-19 *
New Mexico	State Program	6	N/A	06-30-19 *
New York	NELAP	2	10842	04-01-20
North Carolina (DW)	State Program	4	13701	07-31-19
North Carolina (WW/SW)	State Program	4	269	12-31-19
Oklahoma	State Program	6	9984	08-31-19
Pennsylvania	NELAP	3	68-00474	06-30-19 *
Puerto Rico	State Program	2	GA00006	01-01-20
South Carolina	State Program	4	98001	06-30-19 *
Tennessee	State Program	4	TN02961	06-30-19 *
Texas	NELAP	6	T104704185-16-9	11-30-19
Texas (DW)	State Program	1	T104704185	06-30-19 *
US Fish & Wildlife	Federal		LE058448-0	07-31-19
Virginia	NELAP	3	460161	06-14-19 *
Washington	State Program	10	C805	06-10-19 *
West Virginia (DW)	State Program	3	9950C	12-31-19
West Virginia DEP	State Program	3	094	06-30-19 *
Wisconsin	State Program	5	999819810	08-31-19
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Savannah

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168800-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (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
9060A	Organic Carbon, Total (TOC)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
FILTRATION	Sample Filtration	None	TAL SAV

Protocol References:

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 TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Cooler ID 5781 Page 1 of 1 Cooler 2 of 2

Laboratory TestAmerica
 Lab Contact Jon Lawhon; Amy Ragnaldsen
 MES Contact Betty Van Pelt
 MES Phone 801-699-1246
 Project Parcel 80(G), Landfill 3
 Task # 18.094.19-05 2.500
 Lab contract:

Samplers Signature



Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	SW9056A Sulfate 1 - 125ml poly, none	SW6010C Sodium (dissolved, lab filtered) 1-250 ml poly, none	SW8260B - VOC 3-40 ml vials, HCl	RSK-175 - M,E,F 3-40 ml vials, HCl	SW9060A - TOC 3-40 ml amber vials, H2SO4	SW8260B - VOC TB 2-40 ml vials, HCl
OLF-G78	NS	MW	Water	BP	5/6/19	12:46	X	X	X			
OLF-G07	MS/MSD	MW	Water	BP	5/7/19	10:31	X	X	X			
OLF-G07	NS	MW	Water	BP	5/7/19	10:31	X	X	X			
OLF-G77	NS	MW	Water	BP	5/6/19	14:06	X	X	X			
OLF-G08	NS	MW	Water	BP	5/7/19	15:26	X	X	X			
OLF-G20	NS	MW	Water	BP	5/7/19	13:46	X	X	X			
DUP #323	NS	FD	Water	BP	5/6/19	N/A	X	X	X			
OLF-G06	NS	MW	Water	BP	5/6/19	10:06	X	X	X			
TB#530	TB	TB	Water	G	5/8/19	15:20						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
 Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = peristaltic pump, SU = submersible pump
 White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Beta Mgmt
 See Task Order 093 for required list of VOCs and metals.
 Double the number of bottles for MS/MSD

Relinquished by (Signature):

Date/Time: 5/8/19 16:00

Received by (Signature):

FedEx

Relinquished by (Signature):

Date/Time:

Received by (Signature):

Infach 05/09/19 09:32 DUP # 323 - OLF-G77

3.3°C

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-168800-1

Login Number: 168800

List Source: Eurofins TestAmerica, Savannah

List Number: 1

Creator: Banda, Christy S

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	

ANALYTICAL REPORT

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

Laboratory Job ID: 680-168929-1
Client Project/Site: Parcel 80(6), Landfill 3

For:
Matrix Environmental Services, LLC
1601 Blake Street
Suite 200
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt



Authorized for release by:
5/31/2019 6:39:34 PM

Jon Lawhon, Project Manager I
(912)250-0283
jon.lawhon@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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 80(6), Landfill 3

Job ID: 680-168929-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
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.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-168929-1	OLF-G22	Water	05/09/19 12:16	05/11/19 09:00	
680-168929-2	OLF-G36	Water	05/09/19 12:21	05/11/19 09:00	
680-168929-3	OLF-G21	Water	05/09/19 13:51	05/11/19 09:00	
680-168929-4	OLF-G52	Water	05/09/19 10:36	05/11/19 09:00	
680-168929-5	OLF-G47	Water	05/09/19 09:56	05/11/19 09:00	
680-168929-6	OLF-G12	Water	05/09/19 15:06	05/11/19 09:00	
680-168929-7	OLF-G18	Water	05/09/19 14:16	05/11/19 09:00	
680-168929-8	TB-531	Water	05/10/19 14:00	05/11/19 09:00	

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Job ID: 680-168929-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC
Project: Parcel 80(6), Landfill 3

Report Number: 680-168929-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 5/11/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OLF-G22 (680-168929-1), OLF-G36 (680-168929-2), OLF-G21 (680-168929-3), OLF-G52 (680-168929-4), OLF-G47 (680-168929-5), OLF-G12 (680-168929-6), OLF-G18 (680-168929-7) and TB-531 (680-168929-8) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/23/2019 and 05/24/2019.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-571504.

The following sample was diluted to bring the concentration of target analytes within the calibration range: OLF-G12 (680-168929-6). Elevated reporting limits (RLs) are provided.

The laboratory control sample (LCS) for analytical batch 680-571502 recovered outside control limits for the following analyte(s): Bromomethane and Iodomethane. Both have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 680-571502 recovered outside control limits for the following analytes: Iodomethane.

The continuing calibration verification (CCV) analyzed in batch 680-571502 was outside the method criteria for the following analyte(s): Iodomethane. Iodomethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 680-571502 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Sample OLF-G12 (680-168929-6) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

METALS (ICP) - DISSOLVED

Samples OLF-G22 (680-168929-1), OLF-G36 (680-168929-2) and OLF-G12 (680-168929-6) were analyzed for Metals (ICP) - Dissolved in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/22/2019 and analyzed on 05/23/2019.

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

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Job ID: 680-168929-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples OLF-G22 (680-168929-1), OLF-G36 (680-168929-2) and OLF-G12 (680-168929-6) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with SW 846 9056A. The samples were analyzed on 05/24/2019.

The matrix spike (MS) recoveries for analytical batch 680-571738 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Sulfate failed the recovery criteria low for the MS/MSD of sample OLF-G22 (680-168929-1) in batch 680-571738. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits

Sulfate exceeded the RPD limit for the MSD of sample OLF-G22 (680-168929-1) in batch 680-571738.

No additional 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 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G22

Lab Sample ID: 680-168929-1

Date Collected: 05/09/19 12:16

Matrix: Water

Date Received: 05/11/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/23/19 14:05	1
Acrylonitrile	10	U	20	10	ug/L			05/23/19 14:05	1
Benzene	0.43	U	1.0	0.43	ug/L			05/23/19 14:05	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/23/19 14:05	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/23/19 14:05	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/23/19 14:05	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/23/19 14:05	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			05/23/19 14:05	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/23/19 14:05	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/23/19 14:05	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/23/19 14:05	1
Chlorobenzene	3.4		1.0	0.26	ug/L			05/23/19 14:05	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/23/19 14:05	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/23/19 14:05	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/23/19 14:05	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/23/19 14:05	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/23/19 14:05	1
cis-1,2-Dichloroethene	45		1.0	0.41	ug/L			05/23/19 14:05	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/23/19 14:05	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/23/19 14:05	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/23/19 14:05	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/23/19 14:05	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/23/19 14:05	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/23/19 14:05	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/23/19 14:05	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/23/19 14:05	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/23/19 14:05	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/23/19 14:05	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/23/19 14:05	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/23/19 14:05	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/23/19 14:05	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/23/19 14:05	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/23/19 14:05	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/23/19 14:05	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/23/19 14:05	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/23/19 14:05	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/23/19 14:05	1
Iodomethane	5.0	U *	10	5.0	ug/L			05/23/19 14:05	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/23/19 14:05	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/23/19 14:05	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/23/19 14:05	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/23/19 14:05	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/23/19 14:05	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/23/19 14:05	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 14:05	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/23/19 14:05	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/23/19 14:05	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/23/19 14:05	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/23/19 14:05	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G22

Lab Sample ID: 680-168929-1

Date Collected: 05/09/19 12:16

Matrix: Water

Date Received: 05/11/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L	-		05/23/19 14:05	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L	-		05/23/19 14:05	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L	-		05/23/19 14:05	1
1,1,2,2-Tetrachloroethane	58		1.0	0.62	ug/L	-		05/23/19 14:05	1
Tetrachloroethylene	0.96 J		1.0	0.74	ug/L	-		05/23/19 14:05	1
Toluene	0.48	U	1.0	0.48	ug/L	-		05/23/19 14:05	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L	-		05/23/19 14:05	1
trans-1,2-Dichloroethene	9.7		1.0	0.37	ug/L	-		05/23/19 14:05	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L	-		05/23/19 14:05	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L	-		05/23/19 14:05	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L	-		05/23/19 14:05	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L	-		05/23/19 14:05	1
1,1,2-Trichloroethane	2.3		1.0	0.33	ug/L	-		05/23/19 14:05	1
Trichloroethene	100		1.0	0.48	ug/L	-		05/23/19 14:05	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L	-		05/23/19 14:05	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L	-		05/23/19 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L	-		05/23/19 14:05	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L	-		05/23/19 14:05	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L	-		05/23/19 14:05	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L	-		05/23/19 14:05	1
Vinyl chloride	0.70 J		1.0	0.50	ug/L	-		05/23/19 14:05	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L	-		05/23/19 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		80 - 120		05/23/19 14:05	1
Dibromofluoromethane (Surr)	102		80 - 122		05/23/19 14:05	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/23/19 14:05	1
Toluene-d8 (Surr)	101		80 - 120		05/23/19 14:05	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.80	J F1 F2	1.0	0.40	mg/L	-		05/24/19 11:31	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	6700		1000	480	ug/L	-	05/22/19 11:01	05/23/19 12:56	1

Client Sample ID: OLF-G36

Lab Sample ID: 680-168929-2

Date Collected: 05/09/19 12:21

Matrix: Water

Date Received: 05/11/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L	-		05/23/19 14:26	1
Acrylonitrile	10	U	20	10	ug/L	-		05/23/19 14:26	1
Benzene	0.43	U	1.0	0.43	ug/L	-		05/23/19 14:26	1
Bromobenzene	0.50	U	1.0	0.50	ug/L	-		05/23/19 14:26	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L	-		05/23/19 14:26	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L	-		05/23/19 14:26	1
Bromoform	0.43	U	1.0	0.43	ug/L	-		05/23/19 14:26	1
Bromomethane	2.5	U *	5.0	2.5	ug/L	-		05/23/19 14:26	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G36

Lab Sample ID: 680-168929-2

Date Collected: 05/09/19 12:21

Matrix: Water

Date Received: 05/11/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/23/19 14:26	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/23/19 14:26	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/23/19 14:26	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/23/19 14:26	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/23/19 14:26	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/23/19 14:26	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/23/19 14:26	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/23/19 14:26	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/23/19 14:26	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/23/19 14:26	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/23/19 14:26	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/23/19 14:26	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/23/19 14:26	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/23/19 14:26	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/23/19 14:26	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/23/19 14:26	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/23/19 14:26	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/23/19 14:26	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/23/19 14:26	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/23/19 14:26	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/23/19 14:26	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/23/19 14:26	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/23/19 14:26	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/23/19 14:26	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/23/19 14:26	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/23/19 14:26	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/23/19 14:26	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/23/19 14:26	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/23/19 14:26	1
Iodomethane	5.0	U *	10	5.0	ug/L			05/23/19 14:26	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/23/19 14:26	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/23/19 14:26	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/23/19 14:26	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/23/19 14:26	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/23/19 14:26	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/23/19 14:26	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 14:26	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/23/19 14:26	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/23/19 14:26	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/23/19 14:26	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/23/19 14:26	1
Styrene	0.27	U	1.0	0.27	ug/L			05/23/19 14:26	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/23/19 14:26	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 14:26	1
1,1,2,2-Tetrachloroethane	1.4		1.0	0.62	ug/L			05/23/19 14:26	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/23/19 14:26	1
Toluene	0.48	U	1.0	0.48	ug/L			05/23/19 14:26	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/23/19 14:26	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/23/19 14:26	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G36

Lab Sample ID: 680-168929-2

Date Collected: 05/09/19 12:21

Matrix: Water

Date Received: 05/11/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/23/19 14:26	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 14:26	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 14:26	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 14:26	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/23/19 14:26	1
Trichloroethene	0.61	J	1.0	0.48	ug/L			05/23/19 14:26	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/23/19 14:26	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/23/19 14:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/23/19 14:26	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 14:26	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/23/19 14:26	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/23/19 14:26	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/23/19 14:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/23/19 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		05/23/19 14:26	1
Dibromofluoromethane (Surr)	102		80 - 122		05/23/19 14:26	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		05/23/19 14:26	1
Toluene-d8 (Surr)	103		80 - 120		05/23/19 14:26	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	13		1.0	0.40	mg/L			05/24/19 12:09	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3600		1000	480	ug/L		05/22/19 11:01	05/23/19 13:04	1

Client Sample ID: OLF-G21

Lab Sample ID: 680-168929-3

Date Collected: 05/09/19 13:51

Matrix: Water

Date Received: 05/11/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/23/19 14:47	1
Acrylonitrile	10	U	20	10	ug/L			05/23/19 14:47	1
Benzene	0.43	U	1.0	0.43	ug/L			05/23/19 14:47	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/23/19 14:47	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/23/19 14:47	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/23/19 14:47	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/23/19 14:47	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			05/23/19 14:47	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/23/19 14:47	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/23/19 14:47	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/23/19 14:47	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/23/19 14:47	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/23/19 14:47	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/23/19 14:47	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/23/19 14:47	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/23/19 14:47	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G21

Lab Sample ID: 680-168929-3

Date Collected: 05/09/19 13:51

Matrix: Water

Date Received: 05/11/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/23/19 14:47	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/23/19 14:47	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/23/19 14:47	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/23/19 14:47	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/23/19 14:47	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/23/19 14:47	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/23/19 14:47	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/23/19 14:47	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/23/19 14:47	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/23/19 14:47	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/23/19 14:47	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/23/19 14:47	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/23/19 14:47	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/23/19 14:47	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/23/19 14:47	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/23/19 14:47	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/23/19 14:47	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/23/19 14:47	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/23/19 14:47	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/23/19 14:47	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/23/19 14:47	1
Iodomethane	5.0	U *	10	5.0	ug/L			05/23/19 14:47	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/23/19 14:47	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/23/19 14:47	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/23/19 14:47	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/23/19 14:47	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/23/19 14:47	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/23/19 14:47	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 14:47	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/23/19 14:47	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/23/19 14:47	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/23/19 14:47	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/23/19 14:47	1
Styrene	0.27	U	1.0	0.27	ug/L			05/23/19 14:47	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/23/19 14:47	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 14:47	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/23/19 14:47	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/23/19 14:47	1
Toluene	0.48	U	1.0	0.48	ug/L			05/23/19 14:47	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/23/19 14:47	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/23/19 14:47	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/23/19 14:47	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 14:47	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 14:47	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 14:47	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/23/19 14:47	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/23/19 14:47	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/23/19 14:47	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/23/19 14:47	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G21

Lab Sample ID: 680-168929-3

Date Collected: 05/09/19 13:51

Matrix: Water

Date Received: 05/11/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/23/19 14:47	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 14:47	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/23/19 14:47	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/23/19 14:47	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/23/19 14:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/23/19 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		05/23/19 14:47	1
Dibromofluoromethane (Surr)	100		80 - 122		05/23/19 14:47	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		05/23/19 14:47	1
Toluene-d8 (Surr)	101		80 - 120		05/23/19 14:47	1

Client Sample ID: OLF-G52

Lab Sample ID: 680-168929-4

Date Collected: 05/09/19 10:36

Matrix: Water

Date Received: 05/11/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/23/19 15:08	1
Acrylonitrile	10	U	20	10	ug/L			05/23/19 15:08	1
Benzene	0.43	U	1.0	0.43	ug/L			05/23/19 15:08	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/23/19 15:08	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/23/19 15:08	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/23/19 15:08	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/23/19 15:08	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			05/23/19 15:08	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/23/19 15:08	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/23/19 15:08	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/23/19 15:08	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/23/19 15:08	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/23/19 15:08	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/23/19 15:08	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/23/19 15:08	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/23/19 15:08	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/23/19 15:08	1
cis-1,2-Dichloroethene	1.2		1.0	0.41	ug/L			05/23/19 15:08	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/23/19 15:08	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/23/19 15:08	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/23/19 15:08	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/23/19 15:08	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/23/19 15:08	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/23/19 15:08	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/23/19 15:08	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/23/19 15:08	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/23/19 15:08	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/23/19 15:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/23/19 15:08	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/23/19 15:08	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/23/19 15:08	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G52

Lab Sample ID: 680-168929-4

Date Collected: 05/09/19 10:36

Matrix: Water

Date Received: 05/11/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/23/19 15:08	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/23/19 15:08	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/23/19 15:08	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/23/19 15:08	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/23/19 15:08	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/23/19 15:08	1
Iodomethane	5.0	U *	10	5.0	ug/L			05/23/19 15:08	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/23/19 15:08	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/23/19 15:08	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/23/19 15:08	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/23/19 15:08	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/23/19 15:08	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/23/19 15:08	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 15:08	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/23/19 15:08	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/23/19 15:08	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/23/19 15:08	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/23/19 15:08	1
Styrene	0.27	U	1.0	0.27	ug/L			05/23/19 15:08	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/23/19 15:08	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 15:08	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/23/19 15:08	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/23/19 15:08	1
Toluene	0.48	U	1.0	0.48	ug/L			05/23/19 15:08	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/23/19 15:08	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/23/19 15:08	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/23/19 15:08	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 15:08	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 15:08	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 15:08	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/23/19 15:08	1
Trichloroethene	5.9		1.0	0.48	ug/L			05/23/19 15:08	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/23/19 15:08	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/23/19 15:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/23/19 15:08	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 15:08	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/23/19 15:08	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/23/19 15:08	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/23/19 15:08	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/23/19 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		05/23/19 15:08	1
Dibromofluoromethane (Surr)	101		80 - 122		05/23/19 15:08	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131		05/23/19 15:08	1
Toluene-d8 (Surr)	100		80 - 120		05/23/19 15:08	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G47

Lab Sample ID: 680-168929-5

Date Collected: 05/09/19 09:56

Matrix: Water

Date Received: 05/11/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/23/19 15:29	1
Acrylonitrile	10	U	20	10	ug/L			05/23/19 15:29	1
Benzene	0.43	U	1.0	0.43	ug/L			05/23/19 15:29	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/23/19 15:29	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/23/19 15:29	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/23/19 15:29	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/23/19 15:29	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			05/23/19 15:29	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/23/19 15:29	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/23/19 15:29	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/23/19 15:29	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/23/19 15:29	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/23/19 15:29	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/23/19 15:29	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/23/19 15:29	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/23/19 15:29	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/23/19 15:29	1
cis-1,2-Dichloroethene	3.7		1.0	0.41	ug/L			05/23/19 15:29	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/23/19 15:29	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/23/19 15:29	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/23/19 15:29	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/23/19 15:29	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/23/19 15:29	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/23/19 15:29	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/23/19 15:29	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/23/19 15:29	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/23/19 15:29	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/23/19 15:29	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/23/19 15:29	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/23/19 15:29	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/23/19 15:29	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/23/19 15:29	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/23/19 15:29	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/23/19 15:29	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/23/19 15:29	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/23/19 15:29	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/23/19 15:29	1
Iodomethane	5.0	U *	10	5.0	ug/L			05/23/19 15:29	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/23/19 15:29	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/23/19 15:29	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/23/19 15:29	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/23/19 15:29	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/23/19 15:29	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/23/19 15:29	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 15:29	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/23/19 15:29	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/23/19 15:29	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/23/19 15:29	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/23/19 15:29	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G47

Lab Sample ID: 680-168929-5

Date Collected: 05/09/19 09:56

Matrix: Water

Date Received: 05/11/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/23/19 15:29	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/23/19 15:29	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 15:29	1
1,1,2,2-Tetrachloroethane	2.3		1.0	0.62	ug/L			05/23/19 15:29	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/23/19 15:29	1
Toluene	0.48	U	1.0	0.48	ug/L			05/23/19 15:29	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/23/19 15:29	1
trans-1,2-Dichloroethene	1.1		1.0	0.37	ug/L			05/23/19 15:29	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/23/19 15:29	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 15:29	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 15:29	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 15:29	1
1,1,2-Trichloroethane	0.35	J	1.0	0.33	ug/L			05/23/19 15:29	1
Trichloroethene	34		1.0	0.48	ug/L			05/23/19 15:29	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/23/19 15:29	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/23/19 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/23/19 15:29	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 15:29	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/23/19 15:29	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/23/19 15:29	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/23/19 15:29	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/23/19 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		05/23/19 15:29	1
Dibromofluoromethane (Surr)	101		80 - 122		05/23/19 15:29	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		05/23/19 15:29	1
Toluene-d8 (Surr)	97		80 - 120		05/23/19 15:29	1

Client Sample ID: OLF-G12

Lab Sample ID: 680-168929-6

Date Collected: 05/09/19 15:06

Matrix: Water

Date Received: 05/11/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	35	U	50	35	ug/L			05/23/19 18:33	5
Acrylonitrile	50	U	100	50	ug/L			05/23/19 18:33	5
Benzene	2.2	U	5.0	2.2	ug/L			05/23/19 18:33	5
Bromobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 18:33	5
Bromochloromethane	2.3	U	5.0	2.3	ug/L			05/23/19 18:33	5
Bromodichloromethane	2.2	U	5.0	2.2	ug/L			05/23/19 18:33	5
Bromoform	2.2	U	5.0	2.2	ug/L			05/23/19 18:33	5
Bromomethane	13	U	25	13	ug/L			05/23/19 18:33	5
2-Butanone (MEK)	17	U	50	17	ug/L			05/23/19 18:33	5
Carbon disulfide	5.0	U	10	5.0	ug/L			05/23/19 18:33	5
Carbon tetrachloride	1.7	U	5.0	1.7	ug/L			05/23/19 18:33	5
Chlorobenzene	1.3	U	5.0	1.3	ug/L			05/23/19 18:33	5
Chloroethane	13	U	25	13	ug/L			05/23/19 18:33	5
Chloroform	2.5	U	5.0	2.5	ug/L			05/23/19 18:33	5
Chloromethane	2.0	U	5.0	2.0	ug/L			05/23/19 18:33	5

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G12

Lab Sample ID: 680-168929-6

Date Collected: 05/09/19 15:06

Matrix: Water

Date Received: 05/11/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	1.4	U	5.0	1.4	ug/L			05/23/19 18:33	5
4-Chlorotoluene	2.3	U	5.0	2.3	ug/L			05/23/19 18:33	5
cis-1,2-Dichloroethene	42		5.0	2.1	ug/L			05/23/19 18:33	5
cis-1,3-Dichloropropene	2.0	U	5.0	2.0	ug/L			05/23/19 18:33	5
Dibromochloromethane	1.6	U	5.0	1.6	ug/L			05/23/19 18:33	5
1,2-Dibromo-3-Chloropropane	5.5	U	25	5.5	ug/L			05/23/19 18:33	5
1,2-Dibromoethane	2.2	U	5.0	2.2	ug/L			05/23/19 18:33	5
Dibromomethane	1.8	U	5.0	1.8	ug/L			05/23/19 18:33	5
1,2-Dichlorobenzene	1.9	U	5.0	1.9	ug/L			05/23/19 18:33	5
1,3-Dichlorobenzene	2.2	U	5.0	2.2	ug/L			05/23/19 18:33	5
1,4-Dichlorobenzene	2.3	U	5.0	2.3	ug/L			05/23/19 18:33	5
Dichlorodifluoromethane	17		5.0	3.0	ug/L			05/23/19 18:33	5
1,1-Dichloroethane	1.9	U	5.0	1.9	ug/L			05/23/19 18:33	5
1,2-Dichloroethane	2.5	U	5.0	2.5	ug/L			05/23/19 18:33	5
1,1-Dichloroethene	1.8	U	5.0	1.8	ug/L			05/23/19 18:33	5
1,2-Dichloropropane	3.4	U	5.0	3.4	ug/L			05/23/19 18:33	5
1,3-Dichloropropane	1.7	U	5.0	1.7	ug/L			05/23/19 18:33	5
2,2-Dichloropropane	1.9	U	5.0	1.9	ug/L			05/23/19 18:33	5
1,1-Dichloropropene	1.7	U	5.0	1.7	ug/L			05/23/19 18:33	5
Ethylbenzene	1.7	U	5.0	1.7	ug/L			05/23/19 18:33	5
Hexachlorobutadiene	13	U	25	13	ug/L			05/23/19 18:33	5
2-Hexanone	10	U	50	10	ug/L			05/23/19 18:33	5
Iodomethane	25	U	50	25	ug/L			05/23/19 18:33	5
Isopropylbenzene	1.8	U	5.0	1.8	ug/L			05/23/19 18:33	5
Methylene Chloride	13	U	25	13	ug/L			05/23/19 18:33	5
4-Methyl-2-pentanone	11	U	50	11	ug/L			05/23/19 18:33	5
Methyl tert-butyl ether	1.5	U	50	1.5	ug/L			05/23/19 18:33	5
m-Xylene & p-Xylene	1.8	U	5.0	1.8	ug/L			05/23/19 18:33	5
Naphthalene	13	U	25	13	ug/L			05/23/19 18:33	5
n-Butylbenzene	2.4	U	5.0	2.4	ug/L			05/23/19 18:33	5
N-Propylbenzene	1.9	U	5.0	1.9	ug/L			05/23/19 18:33	5
o-Xylene	1.2	U	5.0	1.2	ug/L			05/23/19 18:33	5
p-Isopropyltoluene	2.4	U	5.0	2.4	ug/L			05/23/19 18:33	5
sec-Butylbenzene	2.1	U	5.0	2.1	ug/L			05/23/19 18:33	5
Styrene	1.4	U	5.0	1.4	ug/L			05/23/19 18:33	5
tert-Butylbenzene	2.3	U	5.0	2.3	ug/L			05/23/19 18:33	5
1,1,1,2-Tetrachloroethane	1.9	U	5.0	1.9	ug/L			05/23/19 18:33	5
1,1,2,2-Tetrachloroethane	230		5.0	3.1	ug/L			05/23/19 18:33	5
Tetrachloroethylene	3.7	U	5.0	3.7	ug/L			05/23/19 18:33	5
Toluene	2.4	U	5.0	2.4	ug/L			05/23/19 18:33	5
trans-1,4-Dichloro-2-butene	2.6	U	10	2.6	ug/L			05/23/19 18:33	5
trans-1,2-Dichloroethene	7.5		5.0	1.9	ug/L			05/23/19 18:33	5
trans-1,3-Dichloropropene	2.1	U	5.0	2.1	ug/L			05/23/19 18:33	5
1,2,3-Trichlorobenzene	13	U	25	13	ug/L			05/23/19 18:33	5
1,2,4-Trichlorobenzene	13	U	25	13	ug/L			05/23/19 18:33	5
1,1,1-Trichloroethane	1.9	U	5.0	1.9	ug/L			05/23/19 18:33	5
1,1,2-Trichloroethane	4.7	J	5.0	1.7	ug/L			05/23/19 18:33	5
Trichloroethene	170		5.0	2.4	ug/L			05/23/19 18:33	5
Trichlorofluoromethane	2.1	U	5.0	2.1	ug/L			05/23/19 18:33	5

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G12

Lab Sample ID: 680-168929-6

Date Collected: 05/09/19 15:06

Matrix: Water

Date Received: 05/11/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	2.0	U	5.0	2.0	ug/L			05/23/19 18:33	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.8	U	5.0	1.8	ug/L			05/23/19 18:33	5
1,2,4-Trimethylbenzene	2.4	U	5.0	2.4	ug/L			05/23/19 18:33	5
1,3,5-Trimethylbenzene	1.6	U	5.0	1.6	ug/L			05/23/19 18:33	5
Vinyl acetate	4.1	U	10	4.1	ug/L			05/23/19 18:33	5
Vinyl chloride	2.5	U	5.0	2.5	ug/L			05/23/19 18:33	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			05/23/19 18:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		05/23/19 18:33	5
Dibromofluoromethane (Surr)	104		80 - 122		05/23/19 18:33	5
1,2-Dichloroethane-d4 (Surr)	105		73 - 131		05/23/19 18:33	5
Toluene-d8 (Surr)	96		80 - 120		05/23/19 18:33	5

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.73	J	1.0	0.40	mg/L			05/24/19 15:45	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	3800		1000	480	ug/L		05/22/19 11:01	05/23/19 13:00	1

Client Sample ID: OLF-G18

Lab Sample ID: 680-168929-7

Date Collected: 05/09/19 14:16

Matrix: Water

Date Received: 05/11/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/23/19 15:50	1
Acrylonitrile	10	U	20	10	ug/L			05/23/19 15:50	1
Benzene	0.43	U	1.0	0.43	ug/L			05/23/19 15:50	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/23/19 15:50	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/23/19 15:50	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/23/19 15:50	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/23/19 15:50	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/23/19 15:50	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/23/19 15:50	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/23/19 15:50	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/23/19 15:50	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/23/19 15:50	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/23/19 15:50	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/23/19 15:50	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/23/19 15:50	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/23/19 15:50	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/23/19 15:50	1
cis-1,2-Dichloroethene	4.5		1.0	0.41	ug/L			05/23/19 15:50	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/23/19 15:50	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/23/19 15:50	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/23/19 15:50	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/23/19 15:50	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/23/19 15:50	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G18

Lab Sample ID: 680-168929-7

Date Collected: 05/09/19 14:16

Matrix: Water

Date Received: 05/11/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/23/19 15:50	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/23/19 15:50	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/23/19 15:50	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/23/19 15:50	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/23/19 15:50	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/23/19 15:50	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/23/19 15:50	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/23/19 15:50	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/23/19 15:50	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/23/19 15:50	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/23/19 15:50	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/23/19 15:50	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/23/19 15:50	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/23/19 15:50	1
Iodomethane	5.0	U	10	5.0	ug/L			05/23/19 15:50	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/23/19 15:50	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/23/19 15:50	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/23/19 15:50	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/23/19 15:50	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/23/19 15:50	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/23/19 15:50	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 15:50	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/23/19 15:50	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/23/19 15:50	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/23/19 15:50	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/23/19 15:50	1
Styrene	0.27	U	1.0	0.27	ug/L			05/23/19 15:50	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/23/19 15:50	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 15:50	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/23/19 15:50	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/23/19 15:50	1
Toluene	0.48	U	1.0	0.48	ug/L			05/23/19 15:50	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/23/19 15:50	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/23/19 15:50	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/23/19 15:50	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 15:50	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 15:50	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 15:50	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/23/19 15:50	1
Trichloroethene	52		1.0	0.48	ug/L			05/23/19 15:50	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/23/19 15:50	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/23/19 15:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/23/19 15:50	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 15:50	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/23/19 15:50	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/23/19 15:50	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/23/19 15:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/23/19 15:50	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G18

Date Collected: 05/09/19 14:16

Date Received: 05/11/19 09:00

Lab Sample ID: 680-168929-7

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		05/23/19 15:50	1
Dibromofluoromethane (Surr)	102		80 - 122		05/23/19 15:50	1
1,2-Dichloroethane-d4 (Surr)	101		73 - 131		05/23/19 15:50	1
Toluene-d8 (Surr)	104		80 - 120		05/23/19 15:50	1

Client Sample ID: TB-531

Date Collected: 05/10/19 14:00

Date Received: 05/11/19 09:00

Lab Sample ID: 680-168929-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/24/19 11:16	1
Acrylonitrile	10	U	20	10	ug/L			05/24/19 11:16	1
Benzene	0.43	U	1.0	0.43	ug/L			05/24/19 11:16	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/24/19 11:16	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/24/19 11:16	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/24/19 11:16	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/24/19 11:16	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/24/19 11:16	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/24/19 11:16	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/24/19 11:16	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/24/19 11:16	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/24/19 11:16	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/24/19 11:16	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/24/19 11:16	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/24/19 11:16	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/24/19 11:16	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/24/19 11:16	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/24/19 11:16	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/24/19 11:16	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/24/19 11:16	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/24/19 11:16	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/24/19 11:16	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/24/19 11:16	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/24/19 11:16	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/24/19 11:16	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/24/19 11:16	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/24/19 11:16	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/24/19 11:16	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/24/19 11:16	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/24/19 11:16	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/24/19 11:16	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/24/19 11:16	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/24/19 11:16	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/24/19 11:16	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/24/19 11:16	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/24/19 11:16	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/24/19 11:16	1
Iodomethane	5.0	U	10	5.0	ug/L			05/24/19 11:16	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/24/19 11:16	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: TB-531

Lab Sample ID: 680-168929-8

Date Collected: 05/10/19 14:00

Matrix: Water

Date Received: 05/11/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/24/19 11:16	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/24/19 11:16	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/24/19 11:16	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/24/19 11:16	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/24/19 11:16	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 11:16	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/24/19 11:16	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/24/19 11:16	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/24/19 11:16	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/24/19 11:16	1
Styrene	0.27	U	1.0	0.27	ug/L			05/24/19 11:16	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/24/19 11:16	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 11:16	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/24/19 11:16	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/24/19 11:16	1
Toluene	0.48	U	1.0	0.48	ug/L			05/24/19 11:16	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/24/19 11:16	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/24/19 11:16	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/24/19 11:16	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 11:16	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 11:16	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 11:16	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/24/19 11:16	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/24/19 11:16	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/24/19 11:16	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/24/19 11:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/24/19 11:16	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 11:16	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/24/19 11:16	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/24/19 11:16	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/24/19 11:16	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/24/19 11:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		05/24/19 11:16	1
Dibromofluoromethane (Surr)	99		80 - 122		05/24/19 11:16	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		05/24/19 11:16	1
Toluene-d8 (Surr)	99		80 - 120		05/24/19 11:16	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-571502/9

Matrix: Water

Analysis Batch: 571502

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/23/19 11:16	1
Acrylonitrile	10	U	20	10	ug/L			05/23/19 11:16	1
Benzene	0.43	U	1.0	0.43	ug/L			05/23/19 11:16	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/23/19 11:16	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/23/19 11:16	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/23/19 11:16	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/23/19 11:16	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/23/19 11:16	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/23/19 11:16	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/23/19 11:16	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/23/19 11:16	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/23/19 11:16	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/23/19 11:16	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/23/19 11:16	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/23/19 11:16	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/23/19 11:16	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/23/19 11:16	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/23/19 11:16	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/23/19 11:16	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/23/19 11:16	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/23/19 11:16	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/23/19 11:16	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/23/19 11:16	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/23/19 11:16	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/23/19 11:16	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/23/19 11:16	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/23/19 11:16	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/23/19 11:16	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/23/19 11:16	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/23/19 11:16	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/23/19 11:16	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/23/19 11:16	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/23/19 11:16	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/23/19 11:16	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/23/19 11:16	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/23/19 11:16	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/23/19 11:16	1
Iodomethane	5.0	U	10	5.0	ug/L			05/23/19 11:16	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/23/19 11:16	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/23/19 11:16	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/23/19 11:16	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/23/19 11:16	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/23/19 11:16	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/23/19 11:16	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 11:16	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/23/19 11:16	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/23/19 11:16	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/23/19 11:16	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: MB 680-571502/9

Matrix: Water

Analysis Batch: 571502

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/23/19 11:16	1
Styrene	0.27	U	1.0	0.27	ug/L			05/23/19 11:16	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/23/19 11:16	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 11:16	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/23/19 11:16	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/23/19 11:16	1
Toluene	0.48	U	1.0	0.48	ug/L			05/23/19 11:16	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/23/19 11:16	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/23/19 11:16	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/23/19 11:16	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 11:16	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 11:16	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 11:16	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/23/19 11:16	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/23/19 11:16	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/23/19 11:16	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/23/19 11:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/23/19 11:16	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 11:16	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/23/19 11:16	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/23/19 11:16	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/23/19 11:16	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/23/19 11:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		05/23/19 11:16	1
Dibromofluoromethane (Surr)	99		80 - 122		05/23/19 11:16	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		05/23/19 11:16	1
Toluene-d8 (Surr)	99		80 - 120		05/23/19 11:16	1

Lab Sample ID: LCS 680-571502/3

Matrix: Water

Analysis Batch: 571502

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	208		ug/L		83	70 - 135
Acrylonitrile	500	436		ug/L		87	80 - 123
Benzene	50.0	46.5		ug/L		93	80 - 120
Bromobenzene	50.0	51.7		ug/L		103	80 - 121
Bromochloromethane	50.0	48.6		ug/L		97	80 - 120
Bromodichloromethane	50.0	50.0		ug/L		100	80 - 120
Bromoform	50.0	53.3		ug/L		107	74 - 126
Bromomethane	50.0	29.3	*	ug/L		59	62 - 130
2-Butanone (MEK)	250	220		ug/L		88	80 - 131
Carbon disulfide	50.0	46.0		ug/L		92	80 - 120
Carbon tetrachloride	50.0	50.3		ug/L		101	76 - 123
Chlorobenzene	50.0	48.9		ug/L		98	80 - 120
Chloroethane	50.0	37.4		ug/L		75	66 - 135

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCS 680-571502/3

Matrix: Water

Analysis Batch: 571502

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	48.9		ug/L		98	80 - 120
Chloromethane	50.0	40.1		ug/L		80	69 - 131
2-Chlorotoluene	50.0	48.8		ug/L		98	80 - 120
4-Chlorotoluene	50.0	50.5		ug/L		101	80 - 120
cis-1,2-Dichloroethene	50.0	47.1		ug/L		94	80 - 120
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	80 - 120
Dibromochloromethane	50.0	51.2		ug/L		102	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/L		95	71 - 134
1,2-Dibromoethane	50.0	49.2		ug/L		98	80 - 120
Dibromomethane	50.0	49.3		ug/L		99	80 - 120
1,2-Dichlorobenzene	50.0	45.7		ug/L		91	80 - 120
1,3-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 120
1,4-Dichlorobenzene	50.0	46.5		ug/L		93	80 - 120
Dichlorodifluoromethane	50.0	42.2		ug/L		84	47 - 155
1,1-Dichloroethane	50.0	47.0		ug/L		94	80 - 120
1,2-Dichloroethane	50.0	49.8		ug/L		100	80 - 120
1,1-Dichloroethene	50.0	50.6		ug/L		101	76 - 120
1,2-Dichloropropane	50.0	47.4		ug/L		95	80 - 120
1,3-Dichloropropane	50.0	46.7		ug/L		93	80 - 120
2,2-Dichloropropane	50.0	56.6		ug/L		113	76 - 126
1,1-Dichloropropene	50.0	46.9		ug/L		94	80 - 120
Ethylbenzene	50.0	49.2		ug/L		98	80 - 120
Hexachlorobutadiene	50.0	60.6		ug/L		121	60 - 140
2-Hexanone	250	225		ug/L		90	74 - 127
Iodomethane	50.0	16.4	*	ug/L		33	52 - 142
Isopropylbenzene	50.0	50.4		ug/L		101	80 - 120
Methylene Chloride	50.0	45.1		ug/L		90	80 - 120
4-Methyl-2-pentanone	250	221		ug/L		89	76 - 124
Methyl tert-butyl ether	50.0	47.5		ug/L		95	80 - 120
m-Xylene & p-Xylene	50.0	48.6		ug/L		97	80 - 120
Naphthalene	50.0	48.2		ug/L		96	59 - 140
n-Butylbenzene	50.0	50.2		ug/L		100	80 - 120
N-Propylbenzene	50.0	50.6		ug/L		101	80 - 120
o-Xylene	50.0	49.3		ug/L		99	80 - 120
p-Isopropyltoluene	50.0	50.3		ug/L		101	80 - 120
sec-Butylbenzene	50.0	52.0		ug/L		104	80 - 120
Styrene	50.0	51.1		ug/L		102	80 - 120
tert-Butylbenzene	50.0	51.1		ug/L		102	80 - 121
1,1,1,2-Tetrachloroethane	50.0	51.2		ug/L		102	80 - 121
1,1,1,2,2-Tetrachloroethane	50.0	50.6		ug/L		101	80 - 120
Tetrachloroethylene	50.0	51.7		ug/L		103	80 - 121
Toluene	50.0	47.1		ug/L		94	80 - 113
trans-1,4-Dichloro-2-butene	50.0	52.4		ug/L		105	68 - 125
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120
trans-1,3-Dichloropropene	50.0	46.5		ug/L		93	80 - 120
1,2,3-Trichlorobenzene	50.0	54.2		ug/L		108	61 - 141
1,2,4-Trichlorobenzene	50.0	53.5		ug/L		107	68 - 128
1,1,1-Trichloroethane	50.0	50.3		ug/L		101	80 - 120
1,1,2-Trichloroethane	50.0	48.2		ug/L		96	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCS 680-571502/3

Matrix: Water

Analysis Batch: 571502

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	49.9		ug/L		100	80 - 120
Trichlorofluoromethane	50.0	48.8		ug/L		98	60 - 141
1,2,3-Trichloropropane	50.0	50.3		ug/L		101	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.7		ug/L		105	79 - 124
1,2,4-Trimethylbenzene	50.0	51.9		ug/L		104	80 - 120
1,3,5-Trimethylbenzene	50.0	51.4		ug/L		103	80 - 120
Vinyl acetate	100	126		ug/L		126	67 - 135
Vinyl chloride	50.0	45.5		ug/L		91	71 - 128
Xylenes, Total	100	97.9		ug/L		98	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		80 - 120
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: LCSD 680-571502/4

Matrix: Water

Analysis Batch: 571502

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	202		ug/L		81	70 - 135	3	30
Acrylonitrile	500	430		ug/L		86	80 - 123	1	20
Benzene	50.0	46.8		ug/L		94	80 - 120	1	20
Bromobenzene	50.0	55.0		ug/L		110	80 - 121	6	20
Bromochloromethane	50.0	49.3		ug/L		99	80 - 120	1	20
Bromodichloromethane	50.0	51.4		ug/L		103	80 - 120	3	20
Bromoform	50.0	56.2		ug/L		112	74 - 126	5	20
Bromomethane	50.0	31.1		ug/L		62	62 - 130	6	20
2-Butanone (MEK)	250	217		ug/L		87	80 - 131	1	20
Carbon disulfide	50.0	48.1		ug/L		96	80 - 120	4	20
Carbon tetrachloride	50.0	51.9		ug/L		104	76 - 123	3	20
Chlorobenzene	50.0	49.6		ug/L		99	80 - 120	2	20
Chloroethane	50.0	38.5		ug/L		77	66 - 135	3	20
Chloroform	50.0	49.0		ug/L		98	80 - 120	0	20
Chloromethane	50.0	41.1		ug/L		82	69 - 131	2	30
2-Chlorotoluene	50.0	52.2		ug/L		104	80 - 120	7	20
4-Chlorotoluene	50.0	52.8		ug/L		106	80 - 120	4	20
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	80 - 120	4	20
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	80 - 120	1	20
Dibromochloromethane	50.0	51.6		ug/L		103	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	48.2		ug/L		96	71 - 134	2	20
1,2-Dibromoethane	50.0	49.4		ug/L		99	80 - 120	1	20
Dibromomethane	50.0	50.4		ug/L		101	80 - 120	2	20
1,2-Dichlorobenzene	50.0	47.2		ug/L		94	80 - 120	3	20
1,3-Dichlorobenzene	50.0	47.8		ug/L		96	80 - 120	1	20
1,4-Dichlorobenzene	50.0	47.5		ug/L		95	80 - 120	2	20
Dichlorodifluoromethane	50.0	44.2		ug/L		88	47 - 155	5	40

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCSD 680-571502/4

Matrix: Water

Analysis Batch: 571502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	47.8		ug/L		96	80 - 120	2	20
1,2-Dichloroethane	50.0	48.7		ug/L		97	80 - 120	2	50
1,1-Dichloroethene	50.0	51.8		ug/L		104	76 - 120	2	20
1,2-Dichloropropane	50.0	48.6		ug/L		97	80 - 120	2	20
1,3-Dichloropropane	50.0	46.5		ug/L		93	80 - 120	0	20
2,2-Dichloropropane	50.0	58.6		ug/L		117	76 - 126	3	20
1,1-Dichloropropene	50.0	48.9		ug/L		98	80 - 120	4	20
Ethylbenzene	50.0	51.3		ug/L		103	80 - 120	4	20
Hexachlorobutadiene	50.0	61.7		ug/L		123	60 - 140	2	20
2-Hexanone	250	220		ug/L		88	74 - 127	2	20
Iodomethane	50.0	25.3 *		ug/L		51	52 - 142	43	30
Isopropylbenzene	50.0	53.7		ug/L		107	80 - 120	6	20
Methylene Chloride	50.0	45.4		ug/L		91	80 - 120	1	20
4-Methyl-2-pentanone	250	222		ug/L		89	76 - 124	0	20
Methyl tert-butyl ether	50.0	48.1		ug/L		96	80 - 120	1	20
m-Xylene & p-Xylene	50.0	51.1		ug/L		102	80 - 120	5	20
Naphthalene	50.0	48.0		ug/L		96	59 - 140	0	20
n-Butylbenzene	50.0	51.3		ug/L		103	80 - 120	2	20
N-Propylbenzene	50.0	53.9		ug/L		108	80 - 120	6	20
o-Xylene	50.0	50.5		ug/L		101	80 - 120	2	30
p-Isopropyltoluene	50.0	50.2		ug/L		100	80 - 120	0	20
sec-Butylbenzene	50.0	54.8		ug/L		110	80 - 120	5	20
Styrene	50.0	51.9		ug/L		104	80 - 120	2	20
tert-Butylbenzene	50.0	53.3		ug/L		107	80 - 121	4	20
1,1,1,2-Tetrachloroethane	50.0	52.1		ug/L		104	80 - 121	2	20
1,1,2,2-Tetrachloroethane	50.0	52.1		ug/L		104	80 - 120	3	20
Tetrachloroethylene	50.0	53.4		ug/L		107	80 - 121	3	20
Toluene	50.0	48.5		ug/L		97	80 - 113	3	20
trans-1,4-Dichloro-2-butene	50.0	54.0		ug/L		108	68 - 125	3	30
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	80 - 120	2	30
1,2,3-Trichlorobenzene	50.0	53.1		ug/L		106	61 - 141	2	20
1,2,4-Trichlorobenzene	50.0	53.6		ug/L		107	68 - 128	0	20
1,1,1-Trichloroethane	50.0	51.6		ug/L		103	80 - 120	3	20
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	80 - 120	1	20
Trichloroethene	50.0	51.4		ug/L		103	80 - 120	3	20
Trichlorofluoromethane	50.0	52.0		ug/L		104	60 - 141	6	20
1,2,3-Trichloropropane	50.0	52.0		ug/L		104	80 - 123	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.8		ug/L		112	79 - 124	6	20
1,2,4-Trimethylbenzene	50.0	53.2		ug/L		106	80 - 120	3	20
1,3,5-Trimethylbenzene	50.0	53.6		ug/L		107	80 - 120	4	20
Vinyl acetate	100	126		ug/L		126	67 - 135	0	20
Vinyl chloride	50.0	47.1		ug/L		94	71 - 128	3	20
Xylenes, Total	100	102		ug/L		102	80 - 120	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCSD 680-571502/4

Matrix: Water

Analysis Batch: 571502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 680-571504/9

Matrix: Water

Analysis Batch: 571504

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/23/19 12:20	1
Acrylonitrile	10	U	20	10	ug/L			05/23/19 12:20	1
Benzene	0.43	U	1.0	0.43	ug/L			05/23/19 12:20	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/23/19 12:20	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/23/19 12:20	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/23/19 12:20	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/23/19 12:20	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/23/19 12:20	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/23/19 12:20	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/23/19 12:20	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/23/19 12:20	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/23/19 12:20	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/23/19 12:20	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/23/19 12:20	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/23/19 12:20	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/23/19 12:20	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/23/19 12:20	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/23/19 12:20	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/23/19 12:20	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/23/19 12:20	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/23/19 12:20	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/23/19 12:20	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/23/19 12:20	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/23/19 12:20	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/23/19 12:20	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/23/19 12:20	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/23/19 12:20	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/23/19 12:20	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/23/19 12:20	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/23/19 12:20	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/23/19 12:20	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/23/19 12:20	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/23/19 12:20	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/23/19 12:20	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/23/19 12:20	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/23/19 12:20	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/23/19 12:20	1
Iodomethane	5.0	U	10	5.0	ug/L			05/23/19 12:20	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/23/19 12:20	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: MB 680-571504/9

Matrix: Water

Analysis Batch: 571504

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/23/19 12:20	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/23/19 12:20	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/23/19 12:20	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/23/19 12:20	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/23/19 12:20	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 12:20	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/23/19 12:20	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/23/19 12:20	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/23/19 12:20	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/23/19 12:20	1
Styrene	0.27	U	1.0	0.27	ug/L			05/23/19 12:20	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/23/19 12:20	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 12:20	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/23/19 12:20	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/23/19 12:20	1
Toluene	0.48	U	1.0	0.48	ug/L			05/23/19 12:20	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/23/19 12:20	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/23/19 12:20	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/23/19 12:20	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 12:20	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/23/19 12:20	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/23/19 12:20	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/23/19 12:20	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/23/19 12:20	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/23/19 12:20	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/23/19 12:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/23/19 12:20	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/23/19 12:20	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/23/19 12:20	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/23/19 12:20	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/23/19 12:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/23/19 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		05/23/19 12:20	1
Dibromofluoromethane (Surr)	104		80 - 122		05/23/19 12:20	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/23/19 12:20	1
Toluene-d8 (Surr)	103		80 - 120		05/23/19 12:20	1

Lab Sample ID: LCS 680-571504/4

Matrix: Water

Analysis Batch: 571504

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	262		ug/L		105	70 - 135
Acrylonitrile	500	496		ug/L		99	80 - 123
Benzene	50.0	49.9		ug/L		100	80 - 120
Bromobenzene	50.0	49.8		ug/L		100	80 - 121

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCS 680-571504/4

Matrix: Water

Analysis Batch: 571504

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	50.3		ug/L		101	80 - 120
Bromodichloromethane	50.0	52.8		ug/L		106	80 - 120
Bromoform	50.0	53.2		ug/L		106	74 - 126
Bromomethane	50.0	38.0		ug/L		76	62 - 130
2-Butanone (MEK)	250	270		ug/L		108	80 - 131
Carbon disulfide	50.0	49.4		ug/L		99	80 - 120
Carbon tetrachloride	50.0	53.3		ug/L		107	76 - 123
Chlorobenzene	50.0	49.5		ug/L		99	80 - 120
Chloroethane	50.0	48.8		ug/L		98	66 - 135
Chloroform	50.0	51.8		ug/L		104	80 - 120
Chloromethane	50.0	47.0		ug/L		94	69 - 131
2-Chlorotoluene	50.0	49.5		ug/L		99	80 - 120
4-Chlorotoluene	50.0	48.8		ug/L		98	80 - 120
cis-1,2-Dichloroethene	50.0	50.6		ug/L		101	80 - 120
cis-1,3-Dichloropropene	50.0	53.7		ug/L		107	80 - 120
Dibromochloromethane	50.0	54.4		ug/L		109	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	54.3		ug/L		109	71 - 134
1,2-Dibromoethane	50.0	53.0		ug/L		106	80 - 120
Dibromomethane	50.0	52.3		ug/L		105	80 - 120
1,2-Dichlorobenzene	50.0	48.0		ug/L		96	80 - 120
1,3-Dichlorobenzene	50.0	47.8		ug/L		96	80 - 120
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120
Dichlorodifluoromethane	50.0	45.9		ug/L		92	47 - 155
1,1-Dichloroethane	50.0	50.0		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	52.3		ug/L		105	80 - 120
1,1-Dichloroethene	50.0	51.7		ug/L		103	76 - 120
1,2-Dichloropropane	50.0	49.4		ug/L		99	80 - 120
1,3-Dichloropropane	50.0	51.7		ug/L		103	80 - 120
2,2-Dichloropropane	50.0	54.5		ug/L		109	76 - 126
1,1-Dichloropropene	50.0	49.7		ug/L		99	80 - 120
Ethylbenzene	50.0	48.5		ug/L		97	80 - 120
Hexachlorobutadiene	50.0	48.0		ug/L		96	60 - 140
2-Hexanone	250	265		ug/L		106	74 - 127
Iodomethane	50.0	47.1		ug/L		94	52 - 142
Isopropylbenzene	50.0	49.2		ug/L		98	80 - 120
Methylene Chloride	50.0	48.6		ug/L		97	80 - 120
4-Methyl-2-pentanone	250	270		ug/L		108	76 - 124
Methyl tert-butyl ether	50.0	52.8		ug/L		106	80 - 120
m-Xylene & p-Xylene	50.0	48.6		ug/L		97	80 - 120
Naphthalene	50.0	51.8		ug/L		104	59 - 140
n-Butylbenzene	50.0	48.3		ug/L		97	80 - 120
N-Propylbenzene	50.0	49.2		ug/L		98	80 - 120
o-Xylene	50.0	48.5		ug/L		97	80 - 120
p-Isopropyltoluene	50.0	48.5		ug/L		97	80 - 120
sec-Butylbenzene	50.0	49.0		ug/L		98	80 - 120
Styrene	50.0	49.3		ug/L		99	80 - 120
tert-Butylbenzene	50.0	49.4		ug/L		99	80 - 121
1,1,1,2-Tetrachloroethane	50.0	52.1		ug/L		104	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.7		ug/L		101	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCS 680-571504/4

Matrix: Water

Analysis Batch: 571504

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethylene	50.0	51.9		ug/L		104	80 - 121
Toluene	50.0	51.4		ug/L		103	80 - 113
trans-1,4-Dichloro-2-butene	50.0	54.4		ug/L		109	68 - 125
trans-1,2-Dichloroethene	50.0	49.8		ug/L		100	80 - 120
trans-1,3-Dichloropropene	50.0	53.7		ug/L		107	80 - 120
1,2,3-Trichlorobenzene	50.0	49.5		ug/L		99	61 - 141
1,2,4-Trichlorobenzene	50.0	49.3		ug/L		99	68 - 128
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	80 - 120
1,1,2-Trichloroethane	50.0	53.0		ug/L		106	80 - 120
Trichloroethene	50.0	51.1		ug/L		102	80 - 120
Trichlorofluoromethane	50.0	50.9		ug/L		102	60 - 141
1,2,3-Trichloropropane	50.0	54.1		ug/L		108	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/L		100	79 - 124
1,2,4-Trimethylbenzene	50.0	49.5		ug/L		99	80 - 120
1,3,5-Trimethylbenzene	50.0	49.3		ug/L		99	80 - 120
Vinyl acetate	100	105		ug/L		105	67 - 135
Vinyl chloride	50.0	46.4		ug/L		93	71 - 128
Xylenes, Total	100	97.1		ug/L		97	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	102		80 - 122
1,2-Dichloroethane-d4 (Surr)	101		73 - 131
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: LCSD 680-571504/5

Matrix: Water

Analysis Batch: 571504

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	247		ug/L		99	70 - 135	6	30
Acrylonitrile	500	479		ug/L		96	80 - 123	4	20
Benzene	50.0	49.4		ug/L		99	80 - 120	1	20
Bromobenzene	50.0	49.9		ug/L		100	80 - 121	0	20
Bromochloromethane	50.0	49.5		ug/L		99	80 - 120	2	20
Bromodichloromethane	50.0	51.7		ug/L		103	80 - 120	2	20
Bromoform	50.0	53.0		ug/L		106	74 - 126	0	20
Bromomethane	50.0	41.3		ug/L		83	62 - 130	8	20
2-Butanone (MEK)	250	277		ug/L		111	80 - 131	2	20
Carbon disulfide	50.0	49.8		ug/L		100	80 - 120	1	20
Carbon tetrachloride	50.0	51.7		ug/L		103	76 - 123	3	20
Chlorobenzene	50.0	48.5		ug/L		97	80 - 120	2	20
Chloroethane	50.0	46.8		ug/L		94	66 - 135	4	20
Chloroform	50.0	51.6		ug/L		103	80 - 120	0	20
Chloromethane	50.0	47.6		ug/L		95	69 - 131	1	30
2-Chlorotoluene	50.0	49.1		ug/L		98	80 - 120	1	20
4-Chlorotoluene	50.0	49.7		ug/L		99	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	80 - 120	0	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCSD 680-571504/5

Matrix: Water

Analysis Batch: 571504

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
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	80 - 120	4	20
Dibromochloromethane	50.0	52.8		ug/L		106	80 - 121	3	20
1,2-Dibromo-3-Chloropropane	50.0	53.5		ug/L		107	71 - 134	2	20
1,2-Dibromoethane	50.0	50.9		ug/L		102	80 - 120	4	20
Dibromomethane	50.0	51.6		ug/L		103	80 - 120	1	20
1,2-Dichlorobenzene	50.0	47.1		ug/L		94	80 - 120	2	20
1,3-Dichlorobenzene	50.0	47.5		ug/L		95	80 - 120	0	20
1,4-Dichlorobenzene	50.0	47.5		ug/L		95	80 - 120	3	20
Dichlorodifluoromethane	50.0	44.2		ug/L		88	47 - 155	4	40
1,1-Dichloroethane	50.0	49.6		ug/L		99	80 - 120	1	20
1,2-Dichloroethane	50.0	49.9		ug/L		100	80 - 120	5	50
1,1-Dichloroethene	50.0	51.6		ug/L		103	76 - 120	0	20
1,2-Dichloropropane	50.0	47.9		ug/L		96	80 - 120	3	20
1,3-Dichloropropane	50.0	50.2		ug/L		100	80 - 120	3	20
2,2-Dichloropropane	50.0	53.0		ug/L		106	76 - 126	3	20
1,1-Dichloropropene	50.0	49.6		ug/L		99	80 - 120	0	20
Ethylbenzene	50.0	49.3		ug/L		99	80 - 120	2	20
Hexachlorobutadiene	50.0	47.3		ug/L		95	60 - 140	1	20
2-Hexanone	250	259		ug/L		104	74 - 127	2	20
Iodomethane	50.0	46.8		ug/L		94	52 - 142	1	30
Isopropylbenzene	50.0	49.8		ug/L		100	80 - 120	1	20
Methylene Chloride	50.0	49.0		ug/L		98	80 - 120	1	20
4-Methyl-2-pentanone	250	260		ug/L		104	76 - 124	4	20
Methyl tert-butyl ether	50.0	50.6		ug/L		101	80 - 120	4	20
m-Xylene & p-Xylene	50.0	48.5		ug/L		97	80 - 120	0	20
Naphthalene	50.0	49.5		ug/L		99	59 - 140	5	20
n-Butylbenzene	50.0	47.2		ug/L		94	80 - 120	2	20
N-Propylbenzene	50.0	49.0		ug/L		98	80 - 120	0	20
o-Xylene	50.0	48.7		ug/L		97	80 - 120	0	30
p-Isopropyltoluene	50.0	47.4		ug/L		95	80 - 120	2	20
sec-Butylbenzene	50.0	49.4		ug/L		99	80 - 120	1	20
Styrene	50.0	50.3		ug/L		101	80 - 120	2	20
tert-Butylbenzene	50.0	49.4		ug/L		99	80 - 121	0	20
1,1,1,2-Tetrachloroethane	50.0	51.7		ug/L		103	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	48.7		ug/L		97	80 - 120	4	20
Tetrachloroethylene	50.0	51.0		ug/L		102	80 - 121	2	20
Toluene	50.0	51.1		ug/L		102	80 - 113	0	20
trans-1,4-Dichloro-2-butene	50.0	53.9		ug/L		108	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	52.2		ug/L		104	80 - 120	3	30
1,2,3-Trichlorobenzene	50.0	47.8		ug/L		96	61 - 141	4	20
1,2,4-Trichlorobenzene	50.0	47.4		ug/L		95	68 - 128	4	20
1,1,1-Trichloroethane	50.0	51.7		ug/L		103	80 - 120	1	20
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	80 - 120	3	20
Trichloroethene	50.0	51.3		ug/L		103	80 - 120	0	20
Trichlorofluoromethane	50.0	50.3		ug/L		101	60 - 141	1	20
1,2,3-Trichloropropane	50.0	51.7		ug/L		103	80 - 123	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.2		ug/L		100	79 - 124	1	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCSD 680-571504/5

Matrix: Water

Analysis Batch: 571504

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
1,2,4-Trimethylbenzene	50.0	48.4		ug/L		97	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	49.1		ug/L		98	80 - 120	0	20
Vinyl acetate	100	100		ug/L		100	67 - 135	5	20
Vinyl chloride	50.0	47.9		ug/L		96	71 - 128	3	20
Xylenes, Total	100	97.2		ug/L		97	80 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: MB 680-571698/9

Matrix: Water

Analysis Batch: 571698

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0 U		10	7.0	ug/L			05/24/19 10:55	1
Acrylonitrile	10 U		20	10	ug/L			05/24/19 10:55	1
Benzene	0.43 U		1.0	0.43	ug/L			05/24/19 10:55	1
Bromobenzene	0.50 U		1.0	0.50	ug/L			05/24/19 10:55	1
Bromochloromethane	0.45 U		1.0	0.45	ug/L			05/24/19 10:55	1
Bromodichloromethane	0.44 U		1.0	0.44	ug/L			05/24/19 10:55	1
Bromoform	0.43 U		1.0	0.43	ug/L			05/24/19 10:55	1
Bromomethane	2.5 U		5.0	2.5	ug/L			05/24/19 10:55	1
2-Butanone (MEK)	3.4 U		10	3.4	ug/L			05/24/19 10:55	1
Carbon disulfide	1.0 U		2.0	1.0	ug/L			05/24/19 10:55	1
Carbon tetrachloride	0.33 U		1.0	0.33	ug/L			05/24/19 10:55	1
Chlorobenzene	0.26 U		1.0	0.26	ug/L			05/24/19 10:55	1
Chloroethane	2.5 U		5.0	2.5	ug/L			05/24/19 10:55	1
Chloroform	0.50 U		1.0	0.50	ug/L			05/24/19 10:55	1
Chloromethane	0.40 U		1.0	0.40	ug/L			05/24/19 10:55	1
2-Chlorotoluene	0.27 U		1.0	0.27	ug/L			05/24/19 10:55	1
4-Chlorotoluene	0.45 U		1.0	0.45	ug/L			05/24/19 10:55	1
cis-1,2-Dichloroethene	0.41 U		1.0	0.41	ug/L			05/24/19 10:55	1
cis-1,3-Dichloropropene	0.40 U		1.0	0.40	ug/L			05/24/19 10:55	1
Dibromochloromethane	0.32 U		1.0	0.32	ug/L			05/24/19 10:55	1
1,2-Dibromo-3-Chloropropane	1.1 U		5.0	1.1	ug/L			05/24/19 10:55	1
1,2-Dibromoethane	0.44 U		1.0	0.44	ug/L			05/24/19 10:55	1
Dibromomethane	0.35 U		1.0	0.35	ug/L			05/24/19 10:55	1
1,2-Dichlorobenzene	0.37 U		1.0	0.37	ug/L			05/24/19 10:55	1
1,3-Dichlorobenzene	0.43 U		1.0	0.43	ug/L			05/24/19 10:55	1
1,4-Dichlorobenzene	0.46 U		1.0	0.46	ug/L			05/24/19 10:55	1
Dichlorodifluoromethane	0.60 U		1.0	0.60	ug/L			05/24/19 10:55	1
1,1-Dichloroethane	0.38 U		1.0	0.38	ug/L			05/24/19 10:55	1
1,2-Dichloroethane	0.50 U		1.0	0.50	ug/L			05/24/19 10:55	1
1,1-Dichloroethene	0.36 U		1.0	0.36	ug/L			05/24/19 10:55	1
1,2-Dichloropropane	0.67 U		1.0	0.67	ug/L			05/24/19 10:55	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: MB 680-571698/9

Matrix: Water

Analysis Batch: 571698

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/24/19 10:55	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/24/19 10:55	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/24/19 10:55	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/24/19 10:55	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/24/19 10:55	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/24/19 10:55	1
Iodomethane	5.0	U	10	5.0	ug/L			05/24/19 10:55	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/24/19 10:55	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/24/19 10:55	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/24/19 10:55	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/24/19 10:55	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/24/19 10:55	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/24/19 10:55	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 10:55	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/24/19 10:55	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/24/19 10:55	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/24/19 10:55	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/24/19 10:55	1
Styrene	0.27	U	1.0	0.27	ug/L			05/24/19 10:55	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/24/19 10:55	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 10:55	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/24/19 10:55	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/24/19 10:55	1
Toluene	0.48	U	1.0	0.48	ug/L			05/24/19 10:55	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/24/19 10:55	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/24/19 10:55	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/24/19 10:55	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 10:55	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 10:55	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 10:55	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/24/19 10:55	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/24/19 10:55	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/24/19 10:55	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/24/19 10:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/24/19 10:55	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 10:55	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/24/19 10:55	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/24/19 10:55	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/24/19 10:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/24/19 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		05/24/19 10:55	1
Dibromofluoromethane (Surr)	102		80 - 122		05/24/19 10:55	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		05/24/19 10:55	1
Toluene-d8 (Surr)	101		80 - 120		05/24/19 10:55	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCS 680-571698/3

Matrix: Water

Analysis Batch: 571698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	190		ug/L		76	70 - 135
Acrylonitrile	500	400		ug/L		80	80 - 123
Benzene	50.0	45.9		ug/L		92	80 - 120
Bromobenzene	50.0	51.2		ug/L		102	80 - 121
Bromochloromethane	50.0	50.4		ug/L		101	80 - 120
Bromodichloromethane	50.0	50.1		ug/L		100	80 - 120
Bromoform	50.0	51.8		ug/L		104	74 - 126
Bromomethane	50.0	34.1		ug/L		68	62 - 130
2-Butanone (MEK)	250	204		ug/L		82	80 - 131
Carbon disulfide	50.0	45.9		ug/L		92	80 - 120
Carbon tetrachloride	50.0	52.5		ug/L		105	76 - 123
Chlorobenzene	50.0	48.4		ug/L		97	80 - 120
Chloroethane	50.0	36.3		ug/L		73	66 - 135
Chloroform	50.0	49.5		ug/L		99	80 - 120
Chloromethane	50.0	39.1		ug/L		78	69 - 131
2-Chlorotoluene	50.0	47.8		ug/L		96	80 - 120
4-Chlorotoluene	50.0	49.0		ug/L		98	80 - 120
cis-1,2-Dichloroethene	50.0	46.1		ug/L		92	80 - 120
cis-1,3-Dichloropropene	50.0	49.8		ug/L		100	80 - 120
Dibromochloromethane	50.0	51.5		ug/L		103	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	44.0		ug/L		88	71 - 134
1,2-Dibromoethane	50.0	50.1		ug/L		100	80 - 120
Dibromomethane	50.0	48.7		ug/L		97	80 - 120
1,2-Dichlorobenzene	50.0	45.2		ug/L		90	80 - 120
1,3-Dichlorobenzene	50.0	45.9		ug/L		92	80 - 120
1,4-Dichlorobenzene	50.0	44.8		ug/L		90	80 - 120
Dichlorodifluoromethane	50.0	52.5		ug/L		105	47 - 155
1,1-Dichloroethane	50.0	45.8		ug/L		92	80 - 120
1,2-Dichloroethane	50.0	50.7		ug/L		101	80 - 120
1,1-Dichloroethene	50.0	46.9		ug/L		94	76 - 120
1,2-Dichloropropane	50.0	45.7		ug/L		91	80 - 120
1,3-Dichloropropane	50.0	47.5		ug/L		95	80 - 120
2,2-Dichloropropane	50.0	57.3		ug/L		115	76 - 126
1,1-Dichloropropene	50.0	48.4		ug/L		97	80 - 120
Ethylbenzene	50.0	47.6		ug/L		95	80 - 120
Hexachlorobutadiene	50.0	58.3		ug/L		117	60 - 140
2-Hexanone	250	206		ug/L		83	74 - 127
Iodomethane	50.0	34.2		ug/L		68	52 - 142
Isopropylbenzene	50.0	48.2		ug/L		96	80 - 120
Methylene Chloride	50.0	44.5		ug/L		89	80 - 120
4-Methyl-2-pentanone	250	205		ug/L		82	76 - 124
Methyl tert-butyl ether	50.0	46.4		ug/L		93	80 - 120
m-Xylene & p-Xylene	50.0	48.8		ug/L		98	80 - 120
Naphthalene	50.0	43.5		ug/L		87	59 - 140
n-Butylbenzene	50.0	48.1		ug/L		96	80 - 120
N-Propylbenzene	50.0	49.3		ug/L		99	80 - 120
o-Xylene	50.0	47.8		ug/L		96	80 - 120
p-Isopropyltoluene	50.0	48.2		ug/L		96	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCS 680-571698/3

Matrix: Water

Analysis Batch: 571698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	50.0	50.6		ug/L		101	80 - 120
Styrene	50.0	49.7		ug/L		99	80 - 120
tert-Butylbenzene	50.0	50.7		ug/L		101	80 - 121
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/L		100	80 - 121
1,1,2,2-Tetrachloroethane	50.0	46.7		ug/L		93	80 - 120
Tetrachloroethylene	50.0	55.1		ug/L		110	80 - 121
Toluene	50.0	48.7		ug/L		97	80 - 113
trans-1,4-Dichloro-2-butene	50.0	48.6		ug/L		97	68 - 125
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	80 - 120
trans-1,3-Dichloropropene	50.0	50.7		ug/L		101	80 - 120
1,2,3-Trichlorobenzene	50.0	49.8		ug/L		100	61 - 141
1,2,4-Trichlorobenzene	50.0	50.9		ug/L		102	68 - 128
1,1,1-Trichloroethane	50.0	50.6		ug/L		101	80 - 120
1,1,2-Trichloroethane	50.0	48.3		ug/L		97	80 - 120
Trichloroethene	50.0	50.6		ug/L		101	80 - 120
Trichlorofluoromethane	50.0	51.3		ug/L		103	60 - 141
1,2,3-Trichloropropane	50.0	47.4		ug/L		95	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.5		ug/L		109	79 - 124
1,2,4-Trimethylbenzene	50.0	50.5		ug/L		101	80 - 120
1,3,5-Trimethylbenzene	50.0	50.1		ug/L		100	80 - 120
Vinyl acetate	100	106		ug/L		106	67 - 135
Vinyl chloride	50.0	43.4		ug/L		87	71 - 128
Xylenes, Total	100	96.6		ug/L		97	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		80 - 120
Dibromofluoromethane (Surr)	103		80 - 122
1,2-Dichloroethane-d4 (Surr)	101		73 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 680-571698/5

Matrix: Water

Analysis Batch: 571698

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	196		ug/L		78	70 - 135	3	30
Acrylonitrile	500	422		ug/L		84	80 - 123	5	20
Benzene	50.0	46.9		ug/L		94	80 - 120	2	20
Bromobenzene	50.0	54.0		ug/L		108	80 - 121	5	20
Bromochloromethane	50.0	52.8		ug/L		106	80 - 120	5	20
Bromodichloromethane	50.0	49.4		ug/L		99	80 - 120	1	20
Bromoform	50.0	54.1		ug/L		108	74 - 126	4	20
Bromomethane	50.0	36.3		ug/L		73	62 - 130	7	20
2-Butanone (MEK)	250	216		ug/L		87	80 - 131	6	20
Carbon disulfide	50.0	46.9		ug/L		94	80 - 120	2	20
Carbon tetrachloride	50.0	53.3		ug/L		107	76 - 123	1	20
Chlorobenzene	50.0	49.4		ug/L		99	80 - 120	2	20
Chloroethane	50.0	36.3		ug/L		73	66 - 135	0	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCSD 680-571698/5

Matrix: Water

Analysis Batch: 571698

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
Chloroform	50.0	49.9		ug/L		100	80 - 120	1	20
Chloromethane	50.0	40.0		ug/L		80	69 - 131	2	30
2-Chlorotoluene	50.0	50.8		ug/L		102	80 - 120	6	20
4-Chlorotoluene	50.0	51.5		ug/L		103	80 - 120	5	20
cis-1,2-Dichloroethene	50.0	47.0		ug/L		94	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	49.6		ug/L		99	80 - 120	0	20
Dibromochloromethane	50.0	50.8		ug/L		102	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	46.5		ug/L		93	71 - 134	6	20
1,2-Dibromoethane	50.0	49.0		ug/L		98	80 - 120	2	20
Dibromomethane	50.0	48.9		ug/L		98	80 - 120	0	20
1,2-Dichlorobenzene	50.0	47.5		ug/L		95	80 - 120	5	20
1,3-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 120	3	20
1,4-Dichlorobenzene	50.0	46.3		ug/L		93	80 - 120	3	20
Dichlorodifluoromethane	50.0	52.7		ug/L		105	47 - 155	0	40
1,1-Dichloroethane	50.0	47.4		ug/L		95	80 - 120	3	20
1,2-Dichloroethane	50.0	50.3		ug/L		101	80 - 120	1	50
1,1-Dichloroethene	50.0	48.4		ug/L		97	76 - 120	3	20
1,2-Dichloropropane	50.0	46.0		ug/L		92	80 - 120	1	20
1,3-Dichloropropane	50.0	46.6		ug/L		93	80 - 120	2	20
2,2-Dichloropropane	50.0	57.8		ug/L		116	76 - 126	1	20
1,1-Dichloropropene	50.0	49.1		ug/L		98	80 - 120	1	20
Ethylbenzene	50.0	49.3		ug/L		99	80 - 120	3	20
Hexachlorobutadiene	50.0	61.0		ug/L		122	60 - 140	5	20
2-Hexanone	250	205		ug/L		82	74 - 127	1	20
Iodomethane	50.0	35.6		ug/L		71	52 - 142	4	30
Isopropylbenzene	50.0	50.9		ug/L		102	80 - 120	5	20
Methylene Chloride	50.0	45.8		ug/L		92	80 - 120	3	20
4-Methyl-2-pentanone	250	205		ug/L		82	76 - 124	0	20
Methyl tert-butyl ether	50.0	49.2		ug/L		98	80 - 120	6	20
m-Xylene & p-Xylene	50.0	50.2		ug/L		100	80 - 120	3	20
Naphthalene	50.0	47.1		ug/L		94	59 - 140	8	20
n-Butylbenzene	50.0	49.5		ug/L		99	80 - 120	3	20
N-Propylbenzene	50.0	52.5		ug/L		105	80 - 120	6	20
o-Xylene	50.0	49.2		ug/L		98	80 - 120	3	30
p-Isopropyltoluene	50.0	49.4		ug/L		99	80 - 120	3	20
sec-Butylbenzene	50.0	53.9		ug/L		108	80 - 120	6	20
Styrene	50.0	51.0		ug/L		102	80 - 120	3	20
tert-Butylbenzene	50.0	53.8		ug/L		108	80 - 121	6	20
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/L		104	80 - 121	3	20
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	80 - 120	7	20
Tetrachloroethylene	50.0	53.1		ug/L		106	80 - 121	4	20
Toluene	50.0	48.8		ug/L		98	80 - 113	0	20
trans-1,4-Dichloro-2-butene	50.0	52.0		ug/L		104	68 - 125	7	30
trans-1,2-Dichloroethene	50.0	50.3		ug/L		101	80 - 120	5	20
trans-1,3-Dichloropropene	50.0	49.6		ug/L		99	80 - 120	2	30
1,2,3-Trichlorobenzene	50.0	52.8		ug/L		106	61 - 141	6	20
1,2,4-Trichlorobenzene	50.0	52.9		ug/L		106	68 - 128	4	20
1,1,1-Trichloroethane	50.0	51.2		ug/L		102	80 - 120	1	20
1,1,2-Trichloroethane	50.0	47.4		ug/L		95	80 - 120	2	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: LCSD 680-571698/5

Matrix: Water

Analysis Batch: 571698

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
Trichloroethene	50.0	51.4		ug/L		103	80 - 120	1	20
Trichlorofluoromethane	50.0	51.1		ug/L		102	60 - 141	0	20
1,2,3-Trichloropropane	50.0	50.3		ug/L		101	80 - 123	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.0		ug/L		112	79 - 124	3	20
1,2,4-Trimethylbenzene	50.0	53.3		ug/L		107	80 - 120	5	20
1,3,5-Trimethylbenzene	50.0	52.9		ug/L		106	80 - 120	6	20
Vinyl acetate	100	109		ug/L		109	67 - 135	3	20
Vinyl chloride	50.0	43.9		ug/L		88	71 - 128	1	20
Xylenes, Total	100	99.4		ug/L		99	80 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		80 - 120
Dibromofluoromethane (Surr)	104		80 - 122
1,2-Dichloroethane-d4 (Surr)	102		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-571738/2

Matrix: Water

Analysis Batch: 571738

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			05/24/19 10:40	1

Lab Sample ID: LCS 680-571738/3

Matrix: Water

Analysis Batch: 571738

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	9.71		mg/L		97	87 - 112

Lab Sample ID: LCSD 680-571738/4

Matrix: Water

Analysis Batch: 571738

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	9.73		mg/L		97	87 - 112	0	15

Lab Sample ID: 680-168929-1 MS

Matrix: Water

Analysis Batch: 571738

Client Sample ID: OLF-G22

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	0.80	J F1 F2	10.0	8.92	F1	mg/L		81	87 - 112

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

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

Lab Sample ID: 680-168929-1 MSD

Matrix: Water

Analysis Batch: 571738

Client Sample ID: OLF-G22

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	0.80	J F1 F2	10.0	10.4	F2	mg/L	-	96	87 - 112	16	15

Lab Sample ID: 680-168929-2 DU

Matrix: Water

Analysis Batch: 571738

Client Sample ID: OLF-G36

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	13		13.5		mg/L	-	0	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-571382/1-A

Matrix: Water

Analysis Batch: 571720

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 571382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L	-	05/22/19 11:01	05/23/19 12:43	1

Lab Sample ID: LCS 680-571382/2-A

Matrix: Water

Analysis Batch: 571720

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 571382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	5000	4950		ug/L	-	99	80 - 120

Lab Sample ID: LCSD 680-571382/3-A

Matrix: Water

Analysis Batch: 571720

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 571382

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Sodium	5000	5040		ug/L	-	101	80 - 120	2	20

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

GC/MS VOA

Analysis Batch: 571502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168929-1	OLF-G22	Total/NA	Water	8260B	
680-168929-2	OLF-G36	Total/NA	Water	8260B	
680-168929-3	OLF-G21	Total/NA	Water	8260B	
680-168929-4	OLF-G52	Total/NA	Water	8260B	
680-168929-5	OLF-G47	Total/NA	Water	8260B	
MB 680-571502/9	Method Blank	Total/NA	Water	8260B	
LCS 680-571502/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-571502/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 571504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168929-6	OLF-G12	Total/NA	Water	8260B	
680-168929-7	OLF-G18	Total/NA	Water	8260B	
MB 680-571504/9	Method Blank	Total/NA	Water	8260B	
LCS 680-571504/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-571504/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 571698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168929-8	TB-531	Total/NA	Water	8260B	
MB 680-571698/9	Method Blank	Total/NA	Water	8260B	
LCS 680-571698/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-571698/5	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 571738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168929-1	OLF-G22	Total/NA	Water	9056A	
680-168929-2	OLF-G36	Total/NA	Water	9056A	
680-168929-6	OLF-G12	Total/NA	Water	9056A	
MB 680-571738/2	Method Blank	Total/NA	Water	9056A	
LCS 680-571738/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-571738/4	Lab Control Sample Dup	Total/NA	Water	9056A	
680-168929-1 MS	OLF-G22	Total/NA	Water	9056A	
680-168929-1 MSD	OLF-G22	Total/NA	Water	9056A	
680-168929-2 DU	OLF-G36	Total/NA	Water	9056A	

Metals

Filtration Batch: 571375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168929-1	OLF-G22	Dissolved	Water	FILTRATION	
680-168929-2	OLF-G36	Dissolved	Water	FILTRATION	
680-168929-6	OLF-G12	Dissolved	Water	FILTRATION	

Prep Batch: 571382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168929-1	OLF-G22	Dissolved	Water	3005A	571375
680-168929-2	OLF-G36	Dissolved	Water	3005A	571375
680-168929-6	OLF-G12	Dissolved	Water	3005A	571375
MB 680-571382/1-A	Method Blank	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Savannah

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Metals (Continued)

Prep Batch: 571382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-571382/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 680-571382/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 571720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-168929-1	OLF-G22	Dissolved	Water	6010C	571382
680-168929-2	OLF-G36	Dissolved	Water	6010C	571382
680-168929-6	OLF-G12	Dissolved	Water	6010C	571382
MB 680-571382/1-A	Method Blank	Total Recoverable	Water	6010C	571382
LCS 680-571382/2-A	Lab Control Sample	Total Recoverable	Water	6010C	571382
LCSD 680-571382/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010C	571382

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G22

Date Collected: 05/09/19 12:16

Date Received: 05/11/19 09:00

Lab Sample ID: 680-168929-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571502	05/23/19 14:05	SMP	TAL SAV
		Instrument ID: CMSC								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571738	05/24/19 11:31	SMP	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571375	05/22/19 11:00	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571382	05/22/19 11:01	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571720	05/23/19 12:56	BCB	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G36

Date Collected: 05/09/19 12:21

Date Received: 05/11/19 09:00

Lab Sample ID: 680-168929-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571502	05/23/19 14:26	SMP	TAL SAV
		Instrument ID: CMSC								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571738	05/24/19 12:09	SMP	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571375	05/22/19 11:00	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571382	05/22/19 11:01	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571720	05/23/19 13:04	BCB	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G21

Date Collected: 05/09/19 13:51

Date Received: 05/11/19 09:00

Lab Sample ID: 680-168929-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571502	05/23/19 14:47	SMP	TAL SAV
		Instrument ID: CMSC								

Client Sample ID: OLF-G52

Date Collected: 05/09/19 10:36

Date Received: 05/11/19 09:00

Lab Sample ID: 680-168929-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571502	05/23/19 15:08	SMP	TAL SAV
		Instrument ID: CMSC								

Client Sample ID: OLF-G47

Date Collected: 05/09/19 09:56

Date Received: 05/11/19 09:00

Lab Sample ID: 680-168929-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571502	05/23/19 15:29	SMP	TAL SAV
		Instrument ID: CMSC								

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Client Sample ID: OLF-G12

Date Collected: 05/09/19 15:06

Date Received: 05/11/19 09:00

Lab Sample ID: 680-168929-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	571504	05/23/19 18:33	Y1S	TAL SAV
		Instrument ID: CMSP2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571738	05/24/19 15:45	SMP	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	571375	05/22/19 11:00	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	571382	05/22/19 11:01	AJR	TAL SAV
Dissolved	Analysis	6010C		1			571720	05/23/19 13:00	BCB	TAL SAV
		Instrument ID: ICPE								

Client Sample ID: OLF-G18

Date Collected: 05/09/19 14:16

Date Received: 05/11/19 09:00

Lab Sample ID: 680-168929-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571504	05/23/19 15:50	Y1S	TAL SAV
		Instrument ID: CMSP2								

Client Sample ID: TB-531

Date Collected: 05/10/19 14:00

Date Received: 05/11/19 09:00

Lab Sample ID: 680-168929-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571698	05/24/19 11:16	SMP	TAL SAV
		Instrument ID: CMSC								

Laboratory References:

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

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Laboratory: Eurofins TestAmerica, Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87052	06-30-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Savannah

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-168929-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
9056A	Anions, Ion Chromatography	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
FILTRATION	Sample Filtration	None	TAL SAV

Protocol References:

None = None

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

Laboratory References:

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

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
 Lab Contact Jon Lawhon; Amy Ragnaldsen
 MES Contact Betty Van Pelt
 MES Phone 801-699-1246
 Project Parcel 80(6), Landfill 3
 Task # 18.094.19-05.2.500
 Lab contract:

Cooler ID 5723
 Page 1 of 1

Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis					
							SW9056A Sulfate 1 - 125ml poly, none	SW6010C Sodium (dissolved, lab filtered) 1-250 ml poly, none	SW8260B - VOC 3-40 ml vials, HCl	RSK-175 - M,E,E 3-40 ml vials, HCl	SW9060A - TOC 3-40 ml amber vials, H2SO4	SW8260B - VOC TB 2-40 ml vials, HCl
DLF-G722	NS	MW	Water	BP	5-9-19	1216	X	X	X			
DLF-G736	NS	MW	Water	BP	5-9-19	1221	X	X	X			
DLF-G721	NS	MW	Water	BP	5-9-19	1351			X			
DLF-G752	NS	MW	Water	BP	5-10-19	1036			X			
DLF-G747	NS	MW	Water	BP	5-9-19	956			X			
DLF-G712	NS	MW	Water	BP	5-8-19	1506	X	X	X			
DLF-G718	NS	MW	Water	BP	5-9-19	1416			X			
TB 531	TB	TB	Water	Grab	5-10-19	1400						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
 Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump
 White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
COMMENTS: See Task Order 093 for required list of VOCs and metals.
 Relinquished by (Signature): Date/Time: 5-10-19 1600
 Received by (Signature): Date/Time: 5-10-19 1600
 Relinquished by (Signature): Date/Time: 5-10-19 1600
 Received by (Signature): Date/Time: 5-10-19 1600

OS-11-19 2900
 4-3(F) 4-8-19 4-30

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-168929-1

Login Number: 168929

List Source: Eurofins TestAmerica, Savannah

List Number: 1

Creator: Banda, Christy S

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	

ANALYTICAL REPORT

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

Laboratory Job ID: 680-169087-1
Client Project/Site: Parcel 80(6), Landfill 3

For:
Matrix Environmental Services, LLC
1601 Blake Street
Suite 200
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt



Authorized for release by:
6/7/2019 3:49:53 PM

Jon Lawhon, Project Manager I
(912)250-0283
jon.lawhon@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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 80(6), Landfill 3

Job ID: 680-169087-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
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.

HPLC/IC

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-169087-1	OLF-G75 Screen 1	Water	05/13/19 10:11	05/16/19 09:00	
680-169087-2	OLF-G75 Screen 2	Water	05/13/19 11:56	05/16/19 09:00	
680-169087-3	OLF-G75 Screen 3	Water	05/13/19 14:11	05/16/19 09:00	
680-169087-4	OLF-G75 Screen 4	Water	05/14/19 12:56	05/16/19 09:00	
680-169087-5	OLF-G75 Screen 5	Water	05/14/19 14:01	05/16/19 09:00	
680-169087-6	OLF-G75 Screen 6	Water	05/14/19 15:11	05/16/19 09:00	
680-169087-7	OLF-G70	Water	05/15/19 10:16	05/16/19 09:00	
680-169087-8	OLF-G32	Water	05/14/19 15:56	05/16/19 09:00	
680-169087-9	OLF-G42	Water	05/13/19 15:41	05/16/19 09:00	
680-169087-10	PPMP-229-GP12	Water	05/14/19 12:31	05/16/19 09:00	
680-169087-11	DUP# 319	Water	05/13/19 00:00	05/16/19 09:00	
680-169087-12	EB128	Water	05/15/19 12:15	05/16/19 09:00	
680-169087-13	MB098	Water	05/15/19 12:00	05/16/19 09:00	
680-169087-14	TB532	Water	05/15/19 12:30	05/16/19 09:00	
680-169087-15	OLF-G31	Water	05/15/19 11:56	05/16/19 09:00	

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Job ID: 680-169087-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC
Project: Parcel 80(6), Landfill 3

Report Number: 680-169087-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 5/16/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OLF-G75 Screen 1 (680-169087-1), OLF-G75 Screen 2 (680-169087-2), OLF-G75 Screen 3 (680-169087-3), OLF-G75 Screen 4 (680-169087-4), OLF-G75 Screen 5 (680-169087-5), OLF-G75 Screen 6 (680-169087-6), OLF-G70 (680-169087-7), OLF-G32 (680-169087-8), OLF-G42 (680-169087-9), PPMP-229-GP12 (680-169087-10), DUP# 319 (680-169087-11), EB128 (680-169087-12), MB098 (680-169087-13), TB532 (680-169087-14) and OLF-G31 (680-169087-15) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/24/2019, 05/25/2019, 05/28/2019 and 05/29/2019.

The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 680-571700 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Bromomethane exceeded the RPD limit for the MSD of sample OLF-G42MSD (680-169087-9) in batch 680-571700.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-571803, 680-571989, 680-572112 and 680-572037.

The CCVIS associated with batch 572047 failed 1% low for Vinyl Chloride (CCC). The batch LCS/LCSD met acceptance criteria. The data has been qualified and reported. There is insufficient holding time to rerun the sample.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-572047 recovered outside control limits for the following analytes: 1,2-Dichloroethane, Bromoform, Chlorodibromomethane, tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-572047 recovered outside control limits for the following analyte(s): Bromomethane. Chloromethane. Bromomethane Chloromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The following sample(s) was analyzed outside of analytical holding time due to instrument failures. The samples were loaded on a night clock but didn't inject before midnight. The samples were 3 hours out of hold: OLF-G75 Screen 4 (680-169087-4), OLF-G75 Screen 5 (680-169087-5), OLF-G75 Screen 6 (680-169087-6) and OLF-G32 (680-169087-8).

Naphthalene was detected in method blank MB 680-572047/10 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Case Narrative

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Job ID: 680-169087-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

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

METALS (ICP) - DISSOLVED

Samples EB128 (680-169087-12) and MB098 (680-169087-13) were analyzed for Metals (ICP) - Dissolved in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/28/2019 and analyzed on 05/29/2019.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples EB128 (680-169087-12) and MB098 (680-169087-13) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with SW 846 9056A. The samples were analyzed on 05/26/2019.

The laboratory control sample duplicate (LCSD) for analytical batch 680-571865 recovered outside control limits for the following analyte: Sulfate. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Sulfate failed the recovery criteria high for LCSD 680-571865/46.

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

TOTAL ORGANIC CARBON

Samples EB128 (680-169087-12) and MB098 (680-169087-13) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 05/24/2019.

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 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G75 Screen 1

Lab Sample ID: 680-169087-1

Date Collected: 05/13/19 10:11

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/25/19 16:12	1
Acrylonitrile	10	U	20	10	ug/L			05/25/19 16:12	1
Benzene	0.43	U	1.0	0.43	ug/L			05/25/19 16:12	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/25/19 16:12	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/25/19 16:12	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/25/19 16:12	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/25/19 16:12	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/25/19 16:12	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/25/19 16:12	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/25/19 16:12	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/25/19 16:12	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/25/19 16:12	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/25/19 16:12	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/25/19 16:12	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/25/19 16:12	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/25/19 16:12	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/25/19 16:12	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/25/19 16:12	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/25/19 16:12	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/25/19 16:12	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/25/19 16:12	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/25/19 16:12	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/25/19 16:12	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/25/19 16:12	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/25/19 16:12	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/25/19 16:12	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/25/19 16:12	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/25/19 16:12	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/25/19 16:12	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/25/19 16:12	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/25/19 16:12	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/25/19 16:12	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/25/19 16:12	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/25/19 16:12	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/25/19 16:12	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/25/19 16:12	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/25/19 16:12	1
Iodomethane	5.0	U	10	5.0	ug/L			05/25/19 16:12	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/25/19 16:12	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/25/19 16:12	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/25/19 16:12	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/25/19 16:12	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/25/19 16:12	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/25/19 16:12	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/25/19 16:12	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/25/19 16:12	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/25/19 16:12	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/25/19 16:12	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/25/19 16:12	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G75 Screen 1

Lab Sample ID: 680-169087-1

Date Collected: 05/13/19 10:11

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/25/19 16:12	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/25/19 16:12	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/25/19 16:12	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/25/19 16:12	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/25/19 16:12	1
Toluene	0.48	U	1.0	0.48	ug/L			05/25/19 16:12	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/25/19 16:12	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/25/19 16:12	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/25/19 16:12	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/25/19 16:12	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/25/19 16:12	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/25/19 16:12	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/25/19 16:12	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/25/19 16:12	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/25/19 16:12	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/25/19 16:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/25/19 16:12	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/25/19 16:12	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/25/19 16:12	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/25/19 16:12	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/25/19 16:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/25/19 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		05/25/19 16:12	1
Dibromofluoromethane (Surr)	104		80 - 122		05/25/19 16:12	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/25/19 16:12	1
Toluene-d8 (Surr)	102		80 - 120		05/25/19 16:12	1

Client Sample ID: OLF-G75 Screen 2

Lab Sample ID: 680-169087-2

Date Collected: 05/13/19 11:56

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/24/19 18:45	1
Acrylonitrile	10	U	20	10	ug/L			05/24/19 18:45	1
Benzene	0.43	U	1.0	0.43	ug/L			05/24/19 18:45	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/24/19 18:45	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/24/19 18:45	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/24/19 18:45	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/24/19 18:45	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/24/19 18:45	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/24/19 18:45	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/24/19 18:45	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/24/19 18:45	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/24/19 18:45	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/24/19 18:45	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/24/19 18:45	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/24/19 18:45	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G75 Screen 2

Lab Sample ID: 680-169087-2

Date Collected: 05/13/19 11:56

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/24/19 18:45	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/24/19 18:45	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/24/19 18:45	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/24/19 18:45	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/24/19 18:45	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/24/19 18:45	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/24/19 18:45	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/24/19 18:45	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/24/19 18:45	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/24/19 18:45	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/24/19 18:45	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/24/19 18:45	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/24/19 18:45	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/24/19 18:45	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/24/19 18:45	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/24/19 18:45	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/24/19 18:45	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/24/19 18:45	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/24/19 18:45	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/24/19 18:45	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/24/19 18:45	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/24/19 18:45	1
Iodomethane	5.0	U	10	5.0	ug/L			05/24/19 18:45	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/24/19 18:45	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/24/19 18:45	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/24/19 18:45	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/24/19 18:45	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/24/19 18:45	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/24/19 18:45	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 18:45	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/24/19 18:45	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/24/19 18:45	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/24/19 18:45	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/24/19 18:45	1
Styrene	0.27	U	1.0	0.27	ug/L			05/24/19 18:45	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/24/19 18:45	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 18:45	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/24/19 18:45	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/24/19 18:45	1
Toluene	0.48	U	1.0	0.48	ug/L			05/24/19 18:45	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/24/19 18:45	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/24/19 18:45	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/24/19 18:45	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 18:45	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 18:45	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 18:45	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/24/19 18:45	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/24/19 18:45	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/24/19 18:45	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G75 Screen 2

Lab Sample ID: 680-169087-2

Date Collected: 05/13/19 11:56

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/24/19 18:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/24/19 18:45	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 18:45	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/24/19 18:45	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/24/19 18:45	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/24/19 18:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/24/19 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		05/24/19 18:45	1
Dibromofluoromethane (Surr)	103		80 - 122		05/24/19 18:45	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		05/24/19 18:45	1
Toluene-d8 (Surr)	101		80 - 120		05/24/19 18:45	1

Client Sample ID: OLF-G75 Screen 3

Lab Sample ID: 680-169087-3

Date Collected: 05/13/19 14:11

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/24/19 18:21	1
Acrylonitrile	10	U	20	10	ug/L			05/24/19 18:21	1
Benzene	0.43	U	1.0	0.43	ug/L			05/24/19 18:21	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/24/19 18:21	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/24/19 18:21	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/24/19 18:21	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/24/19 18:21	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/24/19 18:21	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/24/19 18:21	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/24/19 18:21	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/24/19 18:21	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/24/19 18:21	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/24/19 18:21	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/24/19 18:21	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/24/19 18:21	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/24/19 18:21	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/24/19 18:21	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/24/19 18:21	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/24/19 18:21	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/24/19 18:21	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/24/19 18:21	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/24/19 18:21	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/24/19 18:21	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/24/19 18:21	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/24/19 18:21	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/24/19 18:21	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/24/19 18:21	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/24/19 18:21	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/24/19 18:21	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/24/19 18:21	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G75 Screen 3

Lab Sample ID: 680-169087-3

Date Collected: 05/13/19 14:11

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/24/19 18:21	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/24/19 18:21	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/24/19 18:21	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/24/19 18:21	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/24/19 18:21	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/24/19 18:21	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/24/19 18:21	1
Iodomethane	5.0	U	10	5.0	ug/L			05/24/19 18:21	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/24/19 18:21	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/24/19 18:21	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/24/19 18:21	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/24/19 18:21	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/24/19 18:21	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/24/19 18:21	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 18:21	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/24/19 18:21	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/24/19 18:21	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/24/19 18:21	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/24/19 18:21	1
Styrene	0.27	U	1.0	0.27	ug/L			05/24/19 18:21	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/24/19 18:21	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 18:21	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/24/19 18:21	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/24/19 18:21	1
Toluene	0.48	U	1.0	0.48	ug/L			05/24/19 18:21	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/24/19 18:21	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/24/19 18:21	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/24/19 18:21	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 18:21	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 18:21	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 18:21	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/24/19 18:21	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/24/19 18:21	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/24/19 18:21	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/24/19 18:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/24/19 18:21	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 18:21	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/24/19 18:21	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/24/19 18:21	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/24/19 18:21	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/24/19 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		05/24/19 18:21	1
Dibromofluoromethane (Surr)	104		80 - 122		05/24/19 18:21	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/24/19 18:21	1
Toluene-d8 (Surr)	102		80 - 120		05/24/19 18:21	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G75 Screen 4

Lab Sample ID: 680-169087-4

Date Collected: 05/14/19 12:56

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/29/19 02:08	1
Acrylonitrile	10	U H	20	10	ug/L			05/29/19 02:08	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/29/19 02:08	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/29/19 02:08	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/29/19 02:08	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/29/19 02:08	1
Bromoform	0.43	U H *	1.0	0.43	ug/L			05/29/19 02:08	1
Bromomethane	2.5	U H *	5.0	2.5	ug/L			05/29/19 02:08	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/29/19 02:08	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/29/19 02:08	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/29/19 02:08	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			05/29/19 02:08	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			05/29/19 02:08	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/29/19 02:08	1
Chloromethane	0.40	U H *	1.0	0.40	ug/L			05/29/19 02:08	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/29/19 02:08	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/29/19 02:08	1
cis-1,2-Dichloroethene	0.41	U H	1.0	0.41	ug/L			05/29/19 02:08	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/29/19 02:08	1
Dibromochloromethane	0.32	U H *	1.0	0.32	ug/L			05/29/19 02:08	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/29/19 02:08	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/29/19 02:08	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/29/19 02:08	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/29/19 02:08	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/29/19 02:08	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/29/19 02:08	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/29/19 02:08	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/29/19 02:08	1
1,2-Dichloroethane	0.50	U H *	1.0	0.50	ug/L			05/29/19 02:08	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/29/19 02:08	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/29/19 02:08	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/29/19 02:08	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/29/19 02:08	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/29/19 02:08	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/29/19 02:08	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:08	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/29/19 02:08	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/29/19 02:08	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/29/19 02:08	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/29/19 02:08	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/29/19 02:08	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/29/19 02:08	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/29/19 02:08	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:08	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/29/19 02:08	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/29/19 02:08	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/29/19 02:08	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/29/19 02:08	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/29/19 02:08	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G75 Screen 4

Lab Sample ID: 680-169087-4

Date Collected: 05/14/19 12:56

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U H	1.0	0.27	ug/L			05/29/19 02:08	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/29/19 02:08	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/29/19 02:08	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			05/29/19 02:08	1
Tetrachloroethylene	0.74	U H *	1.0	0.74	ug/L			05/29/19 02:08	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/29/19 02:08	1
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/29/19 02:08	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			05/29/19 02:08	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/29/19 02:08	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:08	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:08	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/29/19 02:08	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			05/29/19 02:08	1
Trichloroethene	0.48	U H	1.0	0.48	ug/L			05/29/19 02:08	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/29/19 02:08	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/29/19 02:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/29/19 02:08	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/29/19 02:08	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/29/19 02:08	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/29/19 02:08	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			05/29/19 02:08	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/29/19 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		80 - 120		05/29/19 02:08	1
Dibromofluoromethane (Surr)	105		80 - 122		05/29/19 02:08	1
1,2-Dichloroethane-d4 (Surr)	115		73 - 131		05/29/19 02:08	1
Toluene-d8 (Surr)	102		80 - 120		05/29/19 02:08	1

Client Sample ID: OLF-G75 Screen 5

Lab Sample ID: 680-169087-5

Date Collected: 05/14/19 14:01

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/29/19 02:29	1
Acrylonitrile	10	U H	20	10	ug/L			05/29/19 02:29	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/29/19 02:29	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/29/19 02:29	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/29/19 02:29	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/29/19 02:29	1
Bromoform	0.43	U H *	1.0	0.43	ug/L			05/29/19 02:29	1
Bromomethane	2.5	U H *	5.0	2.5	ug/L			05/29/19 02:29	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/29/19 02:29	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/29/19 02:29	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/29/19 02:29	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			05/29/19 02:29	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			05/29/19 02:29	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/29/19 02:29	1
Chloromethane	0.40	U H *	1.0	0.40	ug/L			05/29/19 02:29	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G75 Screen 5

Lab Sample ID: 680-169087-5

Date Collected: 05/14/19 14:01

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/29/19 02:29	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/29/19 02:29	1
cis-1,2-Dichloroethene	0.41	U H	1.0	0.41	ug/L			05/29/19 02:29	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/29/19 02:29	1
Dibromochloromethane	0.32	U H *	1.0	0.32	ug/L			05/29/19 02:29	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/29/19 02:29	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/29/19 02:29	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/29/19 02:29	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/29/19 02:29	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/29/19 02:29	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/29/19 02:29	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/29/19 02:29	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/29/19 02:29	1
1,2-Dichloroethane	0.50	U H *	1.0	0.50	ug/L			05/29/19 02:29	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/29/19 02:29	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/29/19 02:29	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/29/19 02:29	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/29/19 02:29	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/29/19 02:29	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/29/19 02:29	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:29	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/29/19 02:29	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/29/19 02:29	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/29/19 02:29	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/29/19 02:29	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/29/19 02:29	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/29/19 02:29	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/29/19 02:29	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:29	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/29/19 02:29	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/29/19 02:29	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/29/19 02:29	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/29/19 02:29	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/29/19 02:29	1
Styrene	0.27	U H	1.0	0.27	ug/L			05/29/19 02:29	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/29/19 02:29	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/29/19 02:29	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			05/29/19 02:29	1
Tetrachloroethylene	0.74	U H *	1.0	0.74	ug/L			05/29/19 02:29	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/29/19 02:29	1
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/29/19 02:29	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			05/29/19 02:29	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/29/19 02:29	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:29	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:29	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/29/19 02:29	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			05/29/19 02:29	1
Trichloroethene	0.48	U H	1.0	0.48	ug/L			05/29/19 02:29	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/29/19 02:29	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G75 Screen 5

Lab Sample ID: 680-169087-5

Date Collected: 05/14/19 14:01

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/29/19 02:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/29/19 02:29	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/29/19 02:29	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/29/19 02:29	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/29/19 02:29	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			05/29/19 02:29	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/29/19 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		80 - 120		05/29/19 02:29	1
Dibromofluoromethane (Surr)	104		80 - 122		05/29/19 02:29	1
1,2-Dichloroethane-d4 (Surr)	114		73 - 131		05/29/19 02:29	1
Toluene-d8 (Surr)	102		80 - 120		05/29/19 02:29	1

Client Sample ID: OLF-G75 Screen 6

Lab Sample ID: 680-169087-6

Date Collected: 05/14/19 15:11

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/29/19 02:50	1
Acrylonitrile	10	U H	20	10	ug/L			05/29/19 02:50	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/29/19 02:50	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/29/19 02:50	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/29/19 02:50	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/29/19 02:50	1
Bromoform	0.43	U H *	1.0	0.43	ug/L			05/29/19 02:50	1
Bromomethane	2.5	U H *	5.0	2.5	ug/L			05/29/19 02:50	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/29/19 02:50	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/29/19 02:50	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/29/19 02:50	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			05/29/19 02:50	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			05/29/19 02:50	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/29/19 02:50	1
Chloromethane	0.40	U H *	1.0	0.40	ug/L			05/29/19 02:50	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/29/19 02:50	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/29/19 02:50	1
cis-1,2-Dichloroethene	0.41	U H	1.0	0.41	ug/L			05/29/19 02:50	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/29/19 02:50	1
Dibromochloromethane	0.32	U H *	1.0	0.32	ug/L			05/29/19 02:50	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/29/19 02:50	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/29/19 02:50	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/29/19 02:50	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/29/19 02:50	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/29/19 02:50	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/29/19 02:50	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/29/19 02:50	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/29/19 02:50	1
1,2-Dichloroethane	0.50	U H *	1.0	0.50	ug/L			05/29/19 02:50	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/29/19 02:50	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G75 Screen 6

Lab Sample ID: 680-169087-6

Date Collected: 05/14/19 15:11

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/29/19 02:50	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/29/19 02:50	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/29/19 02:50	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/29/19 02:50	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/29/19 02:50	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:50	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/29/19 02:50	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/29/19 02:50	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/29/19 02:50	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/29/19 02:50	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/29/19 02:50	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/29/19 02:50	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/29/19 02:50	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:50	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/29/19 02:50	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/29/19 02:50	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/29/19 02:50	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/29/19 02:50	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/29/19 02:50	1
Styrene	0.27	U H	1.0	0.27	ug/L			05/29/19 02:50	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/29/19 02:50	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/29/19 02:50	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			05/29/19 02:50	1
Tetrachloroethylene	0.74	U H *	1.0	0.74	ug/L			05/29/19 02:50	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/29/19 02:50	1
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/29/19 02:50	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			05/29/19 02:50	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/29/19 02:50	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:50	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/29/19 02:50	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/29/19 02:50	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			05/29/19 02:50	1
Trichloroethene	0.48	U H	1.0	0.48	ug/L			05/29/19 02:50	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/29/19 02:50	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/29/19 02:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/29/19 02:50	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/29/19 02:50	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/29/19 02:50	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/29/19 02:50	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			05/29/19 02:50	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/29/19 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		80 - 120		05/29/19 02:50	1
Dibromofluoromethane (Surr)	105		80 - 122		05/29/19 02:50	1
1,2-Dichloroethane-d4 (Surr)	115		73 - 131		05/29/19 02:50	1
Toluene-d8 (Surr)	102		80 - 120		05/29/19 02:50	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G70

Lab Sample ID: 680-169087-7

Date Collected: 05/15/19 10:16

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/29/19 05:39	1
Acrylonitrile	10	U	20	10	ug/L			05/29/19 05:39	1
Benzene	0.43	U	1.0	0.43	ug/L			05/29/19 05:39	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/29/19 05:39	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/29/19 05:39	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/29/19 05:39	1
Bromoform	0.43	U *	1.0	0.43	ug/L			05/29/19 05:39	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			05/29/19 05:39	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/29/19 05:39	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/29/19 05:39	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/29/19 05:39	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/29/19 05:39	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/29/19 05:39	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/29/19 05:39	1
Chloromethane	0.40	U *	1.0	0.40	ug/L			05/29/19 05:39	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/29/19 05:39	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/29/19 05:39	1
cis-1,2-Dichloroethene	1.4		1.0	0.41	ug/L			05/29/19 05:39	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/29/19 05:39	1
Dibromochloromethane	0.32	U *	1.0	0.32	ug/L			05/29/19 05:39	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/29/19 05:39	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/29/19 05:39	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/29/19 05:39	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/29/19 05:39	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/29/19 05:39	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/29/19 05:39	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/29/19 05:39	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/29/19 05:39	1
1,2-Dichloroethane	0.50	U *	1.0	0.50	ug/L			05/29/19 05:39	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/29/19 05:39	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/29/19 05:39	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/29/19 05:39	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/29/19 05:39	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/29/19 05:39	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/29/19 05:39	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/29/19 05:39	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/29/19 05:39	1
Iodomethane	5.0	U	10	5.0	ug/L			05/29/19 05:39	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/29/19 05:39	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/29/19 05:39	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/29/19 05:39	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/29/19 05:39	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/29/19 05:39	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/29/19 05:39	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/29/19 05:39	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/29/19 05:39	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/29/19 05:39	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/29/19 05:39	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/29/19 05:39	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G70

Lab Sample ID: 680-169087-7

Date Collected: 05/15/19 10:16

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			05/29/19 05:39	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/29/19 05:39	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/29/19 05:39	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/29/19 05:39	1
Tetrachloroethylene	0.74	U *	1.0	0.74	ug/L			05/29/19 05:39	1
Toluene	0.48	U	1.0	0.48	ug/L			05/29/19 05:39	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/29/19 05:39	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/29/19 05:39	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/29/19 05:39	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/29/19 05:39	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/29/19 05:39	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/29/19 05:39	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/29/19 05:39	1
Trichloroethene	9.3		1.0	0.48	ug/L			05/29/19 05:39	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/29/19 05:39	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/29/19 05:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/29/19 05:39	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/29/19 05:39	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/29/19 05:39	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/29/19 05:39	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/29/19 05:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/29/19 05:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		80 - 120		05/29/19 05:39	1
Dibromofluoromethane (Surr)	109		80 - 122		05/29/19 05:39	1
1,2-Dichloroethane-d4 (Surr)	121		73 - 131		05/29/19 05:39	1
Toluene-d8 (Surr)	106		80 - 120		05/29/19 05:39	1

Client Sample ID: OLF-G32

Lab Sample ID: 680-169087-8

Date Collected: 05/14/19 15:56

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/29/19 03:11	1
Acrylonitrile	10	U H	20	10	ug/L			05/29/19 03:11	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/29/19 03:11	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/29/19 03:11	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/29/19 03:11	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/29/19 03:11	1
Bromoform	0.43	U H *	1.0	0.43	ug/L			05/29/19 03:11	1
Bromomethane	2.5	U H *	5.0	2.5	ug/L			05/29/19 03:11	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/29/19 03:11	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/29/19 03:11	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/29/19 03:11	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			05/29/19 03:11	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			05/29/19 03:11	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/29/19 03:11	1
Chloromethane	0.40	U H *	1.0	0.40	ug/L			05/29/19 03:11	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G32

Lab Sample ID: 680-169087-8

Date Collected: 05/14/19 15:56

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/29/19 03:11	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/29/19 03:11	1
cis-1,2-Dichloroethene	0.41	U H	1.0	0.41	ug/L			05/29/19 03:11	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/29/19 03:11	1
Dibromochloromethane	0.32	U H *	1.0	0.32	ug/L			05/29/19 03:11	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/29/19 03:11	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/29/19 03:11	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/29/19 03:11	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/29/19 03:11	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/29/19 03:11	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/29/19 03:11	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/29/19 03:11	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/29/19 03:11	1
1,2-Dichloroethane	0.50	U H *	1.0	0.50	ug/L			05/29/19 03:11	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/29/19 03:11	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/29/19 03:11	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/29/19 03:11	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/29/19 03:11	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/29/19 03:11	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/29/19 03:11	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/29/19 03:11	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/29/19 03:11	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/29/19 03:11	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/29/19 03:11	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/29/19 03:11	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/29/19 03:11	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/29/19 03:11	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/29/19 03:11	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/29/19 03:11	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/29/19 03:11	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/29/19 03:11	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/29/19 03:11	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/29/19 03:11	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/29/19 03:11	1
Styrene	0.27	U H	1.0	0.27	ug/L			05/29/19 03:11	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/29/19 03:11	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/29/19 03:11	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			05/29/19 03:11	1
Tetrachloroethylene	0.74	U H *	1.0	0.74	ug/L			05/29/19 03:11	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/29/19 03:11	1
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/29/19 03:11	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			05/29/19 03:11	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/29/19 03:11	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/29/19 03:11	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/29/19 03:11	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/29/19 03:11	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			05/29/19 03:11	1
Trichloroethene	0.48	U H	1.0	0.48	ug/L			05/29/19 03:11	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/29/19 03:11	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G32

Lab Sample ID: 680-169087-8

Date Collected: 05/14/19 15:56

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/29/19 03:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/29/19 03:11	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/29/19 03:11	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/29/19 03:11	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/29/19 03:11	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			05/29/19 03:11	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/29/19 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		80 - 120		05/29/19 03:11	1
Dibromofluoromethane (Surr)	107		80 - 122		05/29/19 03:11	1
1,2-Dichloroethane-d4 (Surr)	118		73 - 131		05/29/19 03:11	1
Toluene-d8 (Surr)	104		80 - 120		05/29/19 03:11	1

Client Sample ID: OLF-G42

Lab Sample ID: 680-169087-9

Date Collected: 05/13/19 15:41

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/24/19 17:58	1
Acrylonitrile	10	U	20	10	ug/L			05/24/19 17:58	1
Benzene	0.43	U	1.0	0.43	ug/L			05/24/19 17:58	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/24/19 17:58	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/24/19 17:58	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/24/19 17:58	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/24/19 17:58	1
Bromomethane	2.5	U F2	5.0	2.5	ug/L			05/24/19 17:58	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/24/19 17:58	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/24/19 17:58	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/24/19 17:58	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/24/19 17:58	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/24/19 17:58	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/24/19 17:58	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/24/19 17:58	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/24/19 17:58	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/24/19 17:58	1
cis-1,2-Dichloroethene	2.8		1.0	0.41	ug/L			05/24/19 17:58	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/24/19 17:58	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/24/19 17:58	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/24/19 17:58	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/24/19 17:58	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/24/19 17:58	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/24/19 17:58	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/24/19 17:58	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/24/19 17:58	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/24/19 17:58	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/24/19 17:58	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/24/19 17:58	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/24/19 17:58	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G42

Lab Sample ID: 680-169087-9

Date Collected: 05/13/19 15:41

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/24/19 17:58	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/24/19 17:58	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/24/19 17:58	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/24/19 17:58	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/24/19 17:58	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/24/19 17:58	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/24/19 17:58	1
Iodomethane	5.0	U	10	5.0	ug/L			05/24/19 17:58	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/24/19 17:58	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/24/19 17:58	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/24/19 17:58	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/24/19 17:58	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/24/19 17:58	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/24/19 17:58	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 17:58	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/24/19 17:58	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/24/19 17:58	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/24/19 17:58	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/24/19 17:58	1
Styrene	0.27	U	1.0	0.27	ug/L			05/24/19 17:58	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/24/19 17:58	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 17:58	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/24/19 17:58	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/24/19 17:58	1
Toluene	0.48	U	1.0	0.48	ug/L			05/24/19 17:58	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/24/19 17:58	1
trans-1,2-Dichloroethene	0.64	J	1.0	0.37	ug/L			05/24/19 17:58	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/24/19 17:58	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 17:58	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 17:58	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 17:58	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/24/19 17:58	1
Trichloroethene	11		1.0	0.48	ug/L			05/24/19 17:58	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/24/19 17:58	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/24/19 17:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/24/19 17:58	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 17:58	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/24/19 17:58	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/24/19 17:58	1
Vinyl chloride	1.4		1.0	0.50	ug/L			05/24/19 17:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/24/19 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		05/24/19 17:58	1
Dibromofluoromethane (Surr)	102		80 - 122		05/24/19 17:58	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131		05/24/19 17:58	1
Toluene-d8 (Surr)	103		80 - 120		05/24/19 17:58	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: PPMP-229-GP12

Lab Sample ID: 680-169087-10

Date Collected: 05/14/19 12:31

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			05/29/19 00:19	1
Acrylonitrile	10	U H	20	10	ug/L			05/29/19 00:19	1
Benzene	0.43	U H	1.0	0.43	ug/L			05/29/19 00:19	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			05/29/19 00:19	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			05/29/19 00:19	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			05/29/19 00:19	1
Bromoform	0.43	U H	1.0	0.43	ug/L			05/29/19 00:19	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			05/29/19 00:19	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			05/29/19 00:19	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			05/29/19 00:19	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			05/29/19 00:19	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			05/29/19 00:19	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			05/29/19 00:19	1
Chloroform	0.50	U H	1.0	0.50	ug/L			05/29/19 00:19	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			05/29/19 00:19	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			05/29/19 00:19	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			05/29/19 00:19	1
cis-1,2-Dichloroethene	0.41	U H	1.0	0.41	ug/L			05/29/19 00:19	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			05/29/19 00:19	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			05/29/19 00:19	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			05/29/19 00:19	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			05/29/19 00:19	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			05/29/19 00:19	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			05/29/19 00:19	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			05/29/19 00:19	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			05/29/19 00:19	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			05/29/19 00:19	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			05/29/19 00:19	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			05/29/19 00:19	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			05/29/19 00:19	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			05/29/19 00:19	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			05/29/19 00:19	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			05/29/19 00:19	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			05/29/19 00:19	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			05/29/19 00:19	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			05/29/19 00:19	1
2-Hexanone	2.0	U H	10	2.0	ug/L			05/29/19 00:19	1
Iodomethane	5.0	U H	10	5.0	ug/L			05/29/19 00:19	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			05/29/19 00:19	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			05/29/19 00:19	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			05/29/19 00:19	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			05/29/19 00:19	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			05/29/19 00:19	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			05/29/19 00:19	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			05/29/19 00:19	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			05/29/19 00:19	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			05/29/19 00:19	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			05/29/19 00:19	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			05/29/19 00:19	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: PPMP-229-GP12

Lab Sample ID: 680-169087-10

Date Collected: 05/14/19 12:31

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U H	1.0	0.27	ug/L			05/29/19 00:19	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			05/29/19 00:19	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			05/29/19 00:19	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			05/29/19 00:19	1
Tetrachloroethylene	0.74	U H	1.0	0.74	ug/L			05/29/19 00:19	1
Toluene	0.48	U H	1.0	0.48	ug/L			05/29/19 00:19	1
trans-1,4-Dichloro-2-butene	0.51	U H	2.0	0.51	ug/L			05/29/19 00:19	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			05/29/19 00:19	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			05/29/19 00:19	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/29/19 00:19	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			05/29/19 00:19	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			05/29/19 00:19	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			05/29/19 00:19	1
Trichloroethene	0.48	U H	1.0	0.48	ug/L			05/29/19 00:19	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			05/29/19 00:19	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			05/29/19 00:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U H	1.0	0.36	ug/L			05/29/19 00:19	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			05/29/19 00:19	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			05/29/19 00:19	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			05/29/19 00:19	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			05/29/19 00:19	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			05/29/19 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		05/29/19 00:19	1
Dibromofluoromethane (Surr)	102		80 - 122		05/29/19 00:19	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131		05/29/19 00:19	1
Toluene-d8 (Surr)	99		80 - 120		05/29/19 00:19	1

Client Sample ID: DUP# 319

Lab Sample ID: 680-169087-11

Date Collected: 05/13/19 00:00

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/24/19 17:35	1
Acrylonitrile	10	U	20	10	ug/L			05/24/19 17:35	1
Benzene	0.43	U	1.0	0.43	ug/L			05/24/19 17:35	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/24/19 17:35	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/24/19 17:35	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/24/19 17:35	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/24/19 17:35	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/24/19 17:35	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/24/19 17:35	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/24/19 17:35	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/24/19 17:35	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/24/19 17:35	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/24/19 17:35	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/24/19 17:35	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/24/19 17:35	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: DUP# 319

Lab Sample ID: 680-169087-11

Date Collected: 05/13/19 00:00

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/24/19 17:35	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/24/19 17:35	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/24/19 17:35	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/24/19 17:35	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/24/19 17:35	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/24/19 17:35	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/24/19 17:35	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/24/19 17:35	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/24/19 17:35	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/24/19 17:35	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/24/19 17:35	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/24/19 17:35	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/24/19 17:35	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/24/19 17:35	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/24/19 17:35	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/24/19 17:35	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/24/19 17:35	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/24/19 17:35	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/24/19 17:35	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/24/19 17:35	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/24/19 17:35	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/24/19 17:35	1
Iodomethane	5.0	U	10	5.0	ug/L			05/24/19 17:35	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/24/19 17:35	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/24/19 17:35	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/24/19 17:35	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/24/19 17:35	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/24/19 17:35	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/24/19 17:35	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 17:35	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/24/19 17:35	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/24/19 17:35	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/24/19 17:35	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/24/19 17:35	1
Styrene	0.27	U	1.0	0.27	ug/L			05/24/19 17:35	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/24/19 17:35	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 17:35	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/24/19 17:35	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/24/19 17:35	1
Toluene	0.48	U	1.0	0.48	ug/L			05/24/19 17:35	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/24/19 17:35	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/24/19 17:35	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/24/19 17:35	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 17:35	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 17:35	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 17:35	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/24/19 17:35	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/24/19 17:35	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/24/19 17:35	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: DUP# 319

Lab Sample ID: 680-169087-11

Date Collected: 05/13/19 00:00

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/24/19 17:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/24/19 17:35	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 17:35	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/24/19 17:35	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/24/19 17:35	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/24/19 17:35	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/24/19 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		05/24/19 17:35	1
Dibromofluoromethane (Surr)	104		80 - 122		05/24/19 17:35	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/24/19 17:35	1
Toluene-d8 (Surr)	101		80 - 120		05/24/19 17:35	1

Client Sample ID: EB128

Lab Sample ID: 680-169087-12

Date Collected: 05/15/19 12:15

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/28/19 21:10	1
Acrylonitrile	10	U	20	10	ug/L			05/28/19 21:10	1
Benzene	0.43	U	1.0	0.43	ug/L			05/28/19 21:10	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/28/19 21:10	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/28/19 21:10	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/28/19 21:10	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/28/19 21:10	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/28/19 21:10	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/28/19 21:10	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/28/19 21:10	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/28/19 21:10	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/28/19 21:10	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/28/19 21:10	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/28/19 21:10	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/28/19 21:10	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/28/19 21:10	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/28/19 21:10	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/28/19 21:10	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/28/19 21:10	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/28/19 21:10	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/28/19 21:10	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/28/19 21:10	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/28/19 21:10	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/28/19 21:10	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/28/19 21:10	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/28/19 21:10	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/28/19 21:10	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/28/19 21:10	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/28/19 21:10	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/28/19 21:10	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: EB128

Lab Sample ID: 680-169087-12

Date Collected: 05/15/19 12:15

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/28/19 21:10	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/28/19 21:10	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/28/19 21:10	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/28/19 21:10	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/28/19 21:10	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/28/19 21:10	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/28/19 21:10	1
Iodomethane	5.0	U	10	5.0	ug/L			05/28/19 21:10	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/28/19 21:10	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/28/19 21:10	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/28/19 21:10	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/28/19 21:10	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/28/19 21:10	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/28/19 21:10	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/28/19 21:10	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/28/19 21:10	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/28/19 21:10	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/28/19 21:10	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/28/19 21:10	1
Styrene	0.27	U	1.0	0.27	ug/L			05/28/19 21:10	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/28/19 21:10	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/28/19 21:10	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/28/19 21:10	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/28/19 21:10	1
Toluene	0.48	U	1.0	0.48	ug/L			05/28/19 21:10	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/28/19 21:10	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/28/19 21:10	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/28/19 21:10	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/28/19 21:10	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/28/19 21:10	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/28/19 21:10	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/28/19 21:10	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/28/19 21:10	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/28/19 21:10	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/28/19 21:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/28/19 21:10	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/28/19 21:10	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/28/19 21:10	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/28/19 21:10	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/28/19 21:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/28/19 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		05/28/19 21:10	1
Dibromofluoromethane (Surr)	100		80 - 122		05/28/19 21:10	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		05/28/19 21:10	1
Toluene-d8 (Surr)	90		80 - 120		05/28/19 21:10	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: EB128

Date Collected: 05/15/19 12:15

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-12

Matrix: Water

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U *	1.0	0.40	mg/L			05/26/19 01:04	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		05/28/19 12:39	05/29/19 04:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/24/19 01:22	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/24/19 01:22	1

Client Sample ID: MB098

Date Collected: 05/15/19 12:00

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/29/19 18:32	1
Acrylonitrile	10	U	20	10	ug/L			05/29/19 18:32	1
Benzene	0.43	U	1.0	0.43	ug/L			05/29/19 18:32	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/29/19 18:32	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/29/19 18:32	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/29/19 18:32	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/29/19 18:32	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/29/19 18:32	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/29/19 18:32	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/29/19 18:32	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/29/19 18:32	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/29/19 18:32	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/29/19 18:32	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/29/19 18:32	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/29/19 18:32	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/29/19 18:32	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/29/19 18:32	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/29/19 18:32	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/29/19 18:32	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/29/19 18:32	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/29/19 18:32	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/29/19 18:32	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/29/19 18:32	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/29/19 18:32	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/29/19 18:32	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/29/19 18:32	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/29/19 18:32	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/29/19 18:32	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/29/19 18:32	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/29/19 18:32	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/29/19 18:32	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/29/19 18:32	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/29/19 18:32	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: MB098

Lab Sample ID: 680-169087-13

Date Collected: 05/15/19 12:00

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/29/19 18:32	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/29/19 18:32	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/29/19 18:32	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/29/19 18:32	1
Iodomethane	5.0	U	10	5.0	ug/L			05/29/19 18:32	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/29/19 18:32	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/29/19 18:32	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/29/19 18:32	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/29/19 18:32	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/29/19 18:32	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/29/19 18:32	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/29/19 18:32	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/29/19 18:32	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/29/19 18:32	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/29/19 18:32	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/29/19 18:32	1
Styrene	0.27	U	1.0	0.27	ug/L			05/29/19 18:32	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/29/19 18:32	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/29/19 18:32	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/29/19 18:32	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/29/19 18:32	1
Toluene	0.48	U	1.0	0.48	ug/L			05/29/19 18:32	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/29/19 18:32	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/29/19 18:32	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/29/19 18:32	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/29/19 18:32	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/29/19 18:32	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/29/19 18:32	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/29/19 18:32	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/29/19 18:32	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/29/19 18:32	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/29/19 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/29/19 18:32	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/29/19 18:32	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/29/19 18:32	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/29/19 18:32	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/29/19 18:32	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/29/19 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		05/29/19 18:32	1
Dibromofluoromethane (Surr)	101		80 - 122		05/29/19 18:32	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		05/29/19 18:32	1
Toluene-d8 (Surr)	100		80 - 120		05/29/19 18:32	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U *	1.0	0.40	mg/L			05/26/19 01:17	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: MB098

Date Collected: 05/15/19 12:00

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-13

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		05/28/19 12:39	05/29/19 04:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/24/19 01:37	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/24/19 01:37	1

Client Sample ID: TB532

Date Collected: 05/15/19 12:30

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-14

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	23		10	7.0	ug/L			05/28/19 21:34	1
Acrylonitrile	10	U	20	10	ug/L			05/28/19 21:34	1
Benzene	0.43	U	1.0	0.43	ug/L			05/28/19 21:34	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/28/19 21:34	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/28/19 21:34	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/28/19 21:34	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/28/19 21:34	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/28/19 21:34	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/28/19 21:34	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/28/19 21:34	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/28/19 21:34	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/28/19 21:34	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/28/19 21:34	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/28/19 21:34	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/28/19 21:34	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/28/19 21:34	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/28/19 21:34	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/28/19 21:34	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/28/19 21:34	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/28/19 21:34	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/28/19 21:34	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/28/19 21:34	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/28/19 21:34	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/28/19 21:34	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/28/19 21:34	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/28/19 21:34	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/28/19 21:34	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/28/19 21:34	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/28/19 21:34	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/28/19 21:34	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/28/19 21:34	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/28/19 21:34	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/28/19 21:34	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/28/19 21:34	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/28/19 21:34	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/28/19 21:34	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/28/19 21:34	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: TB532

Lab Sample ID: 680-169087-14

Date Collected: 05/15/19 12:30

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	5.0	U	10	5.0	ug/L			05/28/19 21:34	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/28/19 21:34	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/28/19 21:34	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/28/19 21:34	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/28/19 21:34	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/28/19 21:34	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/28/19 21:34	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/28/19 21:34	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/28/19 21:34	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/28/19 21:34	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/28/19 21:34	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/28/19 21:34	1
Styrene	0.27	U	1.0	0.27	ug/L			05/28/19 21:34	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/28/19 21:34	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/28/19 21:34	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/28/19 21:34	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/28/19 21:34	1
Toluene	0.48	U	1.0	0.48	ug/L			05/28/19 21:34	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/28/19 21:34	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/28/19 21:34	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/28/19 21:34	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/28/19 21:34	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/28/19 21:34	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/28/19 21:34	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/28/19 21:34	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/28/19 21:34	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/28/19 21:34	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/28/19 21:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/28/19 21:34	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/28/19 21:34	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/28/19 21:34	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/28/19 21:34	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/28/19 21:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/28/19 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		05/28/19 21:34	1
Dibromofluoromethane (Surr)	102		80 - 122		05/28/19 21:34	1
1,2-Dichloroethane-d4 (Surr)	104		73 - 131		05/28/19 21:34	1
Toluene-d8 (Surr)	104		80 - 120		05/28/19 21:34	1

Client Sample ID: OLF-G31

Lab Sample ID: 680-169087-15

Date Collected: 05/15/19 11:56

Matrix: Water

Date Received: 05/16/19 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/29/19 05:17	1
Acrylonitrile	10	U	20	10	ug/L			05/29/19 05:17	1
Benzene	0.43	U	1.0	0.43	ug/L			05/29/19 05:17	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G31

Lab Sample ID: 680-169087-15

Date Collected: 05/15/19 11:56

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/29/19 05:17	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/29/19 05:17	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/29/19 05:17	1
Bromoform	0.43	U *	1.0	0.43	ug/L			05/29/19 05:17	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			05/29/19 05:17	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/29/19 05:17	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/29/19 05:17	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/29/19 05:17	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/29/19 05:17	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/29/19 05:17	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/29/19 05:17	1
Chloromethane	0.40	U *	1.0	0.40	ug/L			05/29/19 05:17	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/29/19 05:17	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/29/19 05:17	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/29/19 05:17	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/29/19 05:17	1
Dibromochloromethane	0.32	U *	1.0	0.32	ug/L			05/29/19 05:17	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/29/19 05:17	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/29/19 05:17	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/29/19 05:17	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/29/19 05:17	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/29/19 05:17	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/29/19 05:17	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/29/19 05:17	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/29/19 05:17	1
1,2-Dichloroethane	0.50	U *	1.0	0.50	ug/L			05/29/19 05:17	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/29/19 05:17	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/29/19 05:17	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/29/19 05:17	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/29/19 05:17	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/29/19 05:17	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/29/19 05:17	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/29/19 05:17	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/29/19 05:17	1
Iodomethane	5.0	U	10	5.0	ug/L			05/29/19 05:17	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/29/19 05:17	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/29/19 05:17	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/29/19 05:17	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/29/19 05:17	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/29/19 05:17	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/29/19 05:17	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/29/19 05:17	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/29/19 05:17	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/29/19 05:17	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/29/19 05:17	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/29/19 05:17	1
Styrene	0.27	U	1.0	0.27	ug/L			05/29/19 05:17	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/29/19 05:17	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/29/19 05:17	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G31

Lab Sample ID: 680-169087-15

Date Collected: 05/15/19 11:56

Matrix: Water

Date Received: 05/16/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/29/19 05:17	1
Tetrachloroethylene	0.74	U *	1.0	0.74	ug/L			05/29/19 05:17	1
Toluene	0.48	U	1.0	0.48	ug/L			05/29/19 05:17	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/29/19 05:17	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/29/19 05:17	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/29/19 05:17	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/29/19 05:17	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/29/19 05:17	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/29/19 05:17	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/29/19 05:17	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/29/19 05:17	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/29/19 05:17	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/29/19 05:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/29/19 05:17	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/29/19 05:17	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/29/19 05:17	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/29/19 05:17	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/29/19 05:17	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/29/19 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		80 - 120		05/29/19 05:17	1
Dibromofluoromethane (Surr)	111		80 - 122		05/29/19 05:17	1
1,2-Dichloroethane-d4 (Surr)	124		73 - 131		05/29/19 05:17	1
Toluene-d8 (Surr)	104		80 - 120		05/29/19 05:17	1

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-571700/9

Matrix: Water

Analysis Batch: 571700

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/24/19 13:19	1
Acrylonitrile	10	U	20	10	ug/L			05/24/19 13:19	1
Benzene	0.43	U	1.0	0.43	ug/L			05/24/19 13:19	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/24/19 13:19	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/24/19 13:19	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/24/19 13:19	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/24/19 13:19	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/24/19 13:19	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/24/19 13:19	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/24/19 13:19	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/24/19 13:19	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/24/19 13:19	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/24/19 13:19	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/24/19 13:19	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/24/19 13:19	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/24/19 13:19	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/24/19 13:19	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/24/19 13:19	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/24/19 13:19	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/24/19 13:19	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/24/19 13:19	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/24/19 13:19	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/24/19 13:19	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/24/19 13:19	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/24/19 13:19	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/24/19 13:19	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/24/19 13:19	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/24/19 13:19	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/24/19 13:19	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/24/19 13:19	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/24/19 13:19	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/24/19 13:19	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/24/19 13:19	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/24/19 13:19	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/24/19 13:19	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/24/19 13:19	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/24/19 13:19	1
Iodomethane	5.0	U	10	5.0	ug/L			05/24/19 13:19	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/24/19 13:19	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/24/19 13:19	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/24/19 13:19	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/24/19 13:19	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/24/19 13:19	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/24/19 13:19	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 13:19	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/24/19 13:19	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/24/19 13:19	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/24/19 13:19	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: MB 680-571700/9

Matrix: Water

Analysis Batch: 571700

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/24/19 13:19	1
Styrene	0.27	U	1.0	0.27	ug/L			05/24/19 13:19	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/24/19 13:19	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 13:19	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/24/19 13:19	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/24/19 13:19	1
Toluene	0.48	U	1.0	0.48	ug/L			05/24/19 13:19	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/24/19 13:19	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/24/19 13:19	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/24/19 13:19	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 13:19	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/24/19 13:19	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/24/19 13:19	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/24/19 13:19	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/24/19 13:19	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/24/19 13:19	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/24/19 13:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/24/19 13:19	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/24/19 13:19	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/24/19 13:19	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/24/19 13:19	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/24/19 13:19	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/24/19 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/24/19 13:19	1
Dibromofluoromethane (Surr)	104		80 - 122		05/24/19 13:19	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		05/24/19 13:19	1
Toluene-d8 (Surr)	100		80 - 120		05/24/19 13:19	1

Lab Sample ID: LCS 680-571700/4

Matrix: Water

Analysis Batch: 571700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	243		ug/L		97	70 - 135
Acrylonitrile	500	480		ug/L		96	80 - 123
Benzene	50.0	50.1		ug/L		100	80 - 120
Bromobenzene	50.0	49.9		ug/L		100	80 - 121
Bromochloromethane	50.0	51.5		ug/L		103	80 - 120
Bromodichloromethane	50.0	51.3		ug/L		103	80 - 120
Bromoform	50.0	52.8		ug/L		106	74 - 126
Bromomethane	50.0	49.8		ug/L		100	62 - 130
2-Butanone (MEK)	250	266		ug/L		107	80 - 131
Carbon disulfide	50.0	49.7		ug/L		99	80 - 120
Carbon tetrachloride	50.0	51.4		ug/L		103	76 - 123
Chlorobenzene	50.0	49.3		ug/L		99	80 - 120
Chloroethane	50.0	49.1		ug/L		98	66 - 135

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCS 680-571700/4

Matrix: Water

Analysis Batch: 571700

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	51.9		ug/L		104	80 - 120
Chloromethane	50.0	48.7		ug/L		97	69 - 131
2-Chlorotoluene	50.0	49.4		ug/L		99	80 - 120
4-Chlorotoluene	50.0	49.4		ug/L		99	80 - 120
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	53.2		ug/L		106	80 - 120
Dibromochloromethane	50.0	53.6		ug/L		107	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	49.2		ug/L		98	71 - 134
1,2-Dibromoethane	50.0	52.7		ug/L		105	80 - 120
Dibromomethane	50.0	51.3		ug/L		103	80 - 120
1,2-Dichlorobenzene	50.0	48.8		ug/L		98	80 - 120
1,3-Dichlorobenzene	50.0	47.9		ug/L		96	80 - 120
1,4-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 120
Dichlorodifluoromethane	50.0	53.3		ug/L		107	47 - 155
1,1-Dichloroethane	50.0	50.9		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	51.8		ug/L		104	80 - 120
1,1-Dichloroethene	50.0	49.3		ug/L		99	76 - 120
1,2-Dichloropropane	50.0	48.6		ug/L		97	80 - 120
1,3-Dichloropropane	50.0	51.5		ug/L		103	80 - 120
2,2-Dichloropropane	50.0	52.7		ug/L		105	76 - 126
1,1-Dichloropropene	50.0	51.1		ug/L		102	80 - 120
Ethylbenzene	50.0	48.6		ug/L		97	80 - 120
Hexachlorobutadiene	50.0	45.5		ug/L		91	60 - 140
2-Hexanone	250	252		ug/L		101	74 - 127
Iodomethane	50.0	48.2		ug/L		96	52 - 142
Isopropylbenzene	50.0	49.7		ug/L		99	80 - 120
Methylene Chloride	50.0	48.0		ug/L		96	80 - 120
4-Methyl-2-pentanone	250	255		ug/L		102	76 - 124
Methyl tert-butyl ether	50.0	51.6		ug/L		103	80 - 120
m-Xylene & p-Xylene	50.0	49.7		ug/L		99	80 - 120
Naphthalene	50.0	49.6		ug/L		99	59 - 140
n-Butylbenzene	50.0	46.9		ug/L		94	80 - 120
N-Propylbenzene	50.0	50.0		ug/L		100	80 - 120
o-Xylene	50.0	49.4		ug/L		99	80 - 120
p-Isopropyltoluene	50.0	48.2		ug/L		96	80 - 120
sec-Butylbenzene	50.0	49.9		ug/L		100	80 - 120
Styrene	50.0	49.9		ug/L		100	80 - 120
tert-Butylbenzene	50.0	50.5		ug/L		101	80 - 121
1,1,1,2-Tetrachloroethane	50.0	53.3		ug/L		107	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.0		ug/L		100	80 - 120
Tetrachloroethylene	50.0	50.9		ug/L		102	80 - 121
Toluene	50.0	51.0		ug/L		102	80 - 113
trans-1,4-Dichloro-2-butene	50.0	52.5		ug/L		105	68 - 125
trans-1,2-Dichloroethene	50.0	49.8		ug/L		100	80 - 120
trans-1,3-Dichloropropene	50.0	55.9		ug/L		112	80 - 120
1,2,3-Trichlorobenzene	50.0	46.9		ug/L		94	61 - 141
1,2,4-Trichlorobenzene	50.0	46.2		ug/L		92	68 - 128
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCS 680-571700/4

Matrix: Water

Analysis Batch: 571700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	51.6		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	51.0		ug/L		102	60 - 141
1,2,3-Trichloropropane	50.0	52.2		ug/L		104	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.9		ug/L		98	79 - 124
1,2,4-Trimethylbenzene	50.0	49.5		ug/L		99	80 - 120
1,3,5-Trimethylbenzene	50.0	50.1		ug/L		100	80 - 120
Vinyl acetate	100	92.3		ug/L		92	67 - 135
Vinyl chloride	50.0	48.7		ug/L		97	71 - 128
Xylenes, Total	100	99.1		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	101		73 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 680-571700/5

Matrix: Water

Analysis Batch: 571700

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	245		ug/L		98	70 - 135	1	30
Acrylonitrile	500	468		ug/L		94	80 - 123	3	20
Benzene	50.0	49.5		ug/L		99	80 - 120	1	20
Bromobenzene	50.0	50.8		ug/L		102	80 - 121	2	20
Bromochloromethane	50.0	50.3		ug/L		101	80 - 120	2	20
Bromodichloromethane	50.0	50.4		ug/L		101	80 - 120	2	20
Bromoform	50.0	53.9		ug/L		108	74 - 126	2	20
Bromomethane	50.0	43.8		ug/L		88	62 - 130	13	20
2-Butanone (MEK)	250	267		ug/L		107	80 - 131	0	20
Carbon disulfide	50.0	49.4		ug/L		99	80 - 120	1	20
Carbon tetrachloride	50.0	52.0		ug/L		104	76 - 123	1	20
Chlorobenzene	50.0	50.2		ug/L		100	80 - 120	2	20
Chloroethane	50.0	49.6		ug/L		99	66 - 135	1	20
Chloroform	50.0	52.2		ug/L		104	80 - 120	1	20
Chloromethane	50.0	49.6		ug/L		99	69 - 131	2	30
2-Chlorotoluene	50.0	50.3		ug/L		101	80 - 120	2	20
4-Chlorotoluene	50.0	50.0		ug/L		100	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	52.6		ug/L		105	80 - 120	1	20
Dibromochloromethane	50.0	53.1		ug/L		106	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	50.9		ug/L		102	71 - 134	3	20
1,2-Dibromoethane	50.0	52.1		ug/L		104	80 - 120	1	20
Dibromomethane	50.0	50.5		ug/L		101	80 - 120	2	20
1,2-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120	2	20
1,3-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120	1	20
1,4-Dichlorobenzene	50.0	49.0		ug/L		98	80 - 120	4	20
Dichlorodifluoromethane	50.0	56.0		ug/L		112	47 - 155	5	40

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCSD 680-571700/5

Matrix: Water

Analysis Batch: 571700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	50.4		ug/L		101	80 - 120	1	20
1,2-Dichloroethane	50.0	51.0		ug/L		102	80 - 120	1	50
1,1-Dichloroethene	50.0	50.8		ug/L		102	76 - 120	3	20
1,2-Dichloropropane	50.0	48.6		ug/L		97	80 - 120	0	20
1,3-Dichloropropane	50.0	51.1		ug/L		102	80 - 120	1	20
2,2-Dichloropropane	50.0	51.4		ug/L		103	76 - 126	3	20
1,1-Dichloropropene	50.0	51.2		ug/L		102	80 - 120	0	20
Ethylbenzene	50.0	49.5		ug/L		99	80 - 120	2	20
Hexachlorobutadiene	50.0	47.3		ug/L		95	60 - 140	4	20
2-Hexanone	250	252		ug/L		101	74 - 127	0	20
Iodomethane	50.0	47.5		ug/L		95	52 - 142	2	30
Isopropylbenzene	50.0	50.6		ug/L		101	80 - 120	2	20
Methylene Chloride	50.0	47.7		ug/L		95	80 - 120	1	20
4-Methyl-2-pentanone	250	254		ug/L		101	76 - 124	1	20
Methyl tert-butyl ether	50.0	51.1		ug/L		102	80 - 120	1	20
m-Xylene & p-Xylene	50.0	50.3		ug/L		101	80 - 120	1	20
Naphthalene	50.0	51.6		ug/L		103	59 - 140	4	20
n-Butylbenzene	50.0	48.2		ug/L		96	80 - 120	3	20
N-Propylbenzene	50.0	50.3		ug/L		101	80 - 120	1	20
o-Xylene	50.0	50.1		ug/L		100	80 - 120	1	30
p-Isopropyltoluene	50.0	49.1		ug/L		98	80 - 120	2	20
sec-Butylbenzene	50.0	50.0		ug/L		100	80 - 120	0	20
Styrene	50.0	50.5		ug/L		101	80 - 120	1	20
tert-Butylbenzene	50.0	51.0		ug/L		102	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/L		108	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	50.6		ug/L		101	80 - 120	1	20
Tetrachloroethylene	50.0	51.5		ug/L		103	80 - 121	1	20
Toluene	50.0	51.4		ug/L		103	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	53.1		ug/L		106	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	55.5		ug/L		111	80 - 120	1	30
1,2,3-Trichlorobenzene	50.0	48.0		ug/L		96	61 - 141	2	20
1,2,4-Trichlorobenzene	50.0	47.6		ug/L		95	68 - 128	3	20
1,1,1-Trichloroethane	50.0	50.7		ug/L		101	80 - 120	0	20
1,1,2-Trichloroethane	50.0	51.7		ug/L		103	80 - 120	1	20
Trichloroethene	50.0	52.8		ug/L		106	80 - 120	2	20
Trichlorofluoromethane	50.0	51.7		ug/L		103	60 - 141	1	20
1,2,3-Trichloropropane	50.0	52.1		ug/L		104	80 - 123	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9		ug/L		102	79 - 124	4	20
1,2,4-Trimethylbenzene	50.0	49.4		ug/L		99	80 - 120	0	20
1,3,5-Trimethylbenzene	50.0	50.5		ug/L		101	80 - 120	1	20
Vinyl acetate	100	89.1		ug/L		89	67 - 135	4	20
Vinyl chloride	50.0	50.0		ug/L		100	71 - 128	2	20
Xylenes, Total	100	100		ug/L		100	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCSD 680-571700/5

Matrix: Water

Analysis Batch: 571700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	98		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 680-169087-9 MS

Matrix: Water

Analysis Batch: 571700

Client Sample ID: OLF-G42

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	7.0	U	250	229		ug/L		92	60 - 154
Acrylonitrile	10	U	500	455		ug/L		91	72 - 132
Benzene	0.43	U	50.0	49.7		ug/L		99	73 - 131
Bromobenzene	0.50	U	50.0	49.3		ug/L		99	79 - 124
Bromochloromethane	0.45	U	50.0	48.3		ug/L		97	77 - 122
Bromodichloromethane	0.44	U	50.0	51.6		ug/L		103	77 - 129
Bromoform	0.43	U	50.0	54.1		ug/L		108	69 - 135
Bromomethane	2.5	U F2	50.1	32.9		ug/L		66	20 - 180
2-Butanone (MEK)	3.4	U	250	247		ug/L		99	75 - 133
Carbon disulfide	1.0	U	50.0	50.1		ug/L		100	73 - 127
Carbon tetrachloride	0.33	U	50.0	53.9		ug/L		108	75 - 130
Chlorobenzene	0.26	U	50.0	49.6		ug/L		99	80 - 120
Chloroethane	2.5	U	50.0	50.4		ug/L		101	50 - 151
Chloroform	0.50	U	50.0	51.8		ug/L		104	79 - 122
Chloromethane	0.40	U	50.0	48.7		ug/L		97	63 - 126
2-Chlorotoluene	0.27	U	50.0	49.3		ug/L		99	77 - 121
4-Chlorotoluene	0.45	U	50.0	49.2		ug/L		98	80 - 120
cis-1,2-Dichloroethene	2.8		50.0	51.4		ug/L		97	80 - 122
cis-1,3-Dichloropropene	0.40	U	50.0	49.5		ug/L		99	80 - 133
Dibromochloromethane	0.32	U	50.0	53.2		ug/L		106	71 - 136
1,2-Dibromo-3-Chloropropane	1.1	U	50.0	51.5		ug/L		103	59 - 141
1,2-Dibromoethane	0.44	U	50.0	49.6		ug/L		99	77 - 131
Dibromomethane	0.35	U	50.0	51.1		ug/L		102	80 - 122
1,2-Dichlorobenzene	0.37	U	50.0	47.9		ug/L		96	80 - 120
1,3-Dichlorobenzene	0.43	U	50.0	46.5		ug/L		93	80 - 120
1,4-Dichlorobenzene	0.46	U	50.0	48.1		ug/L		96	80 - 120
Dichlorodifluoromethane	0.60	U	50.1	45.1		ug/L		90	51 - 140
1,1-Dichloroethane	0.38	U	50.0	50.8		ug/L		102	80 - 120
1,2-Dichloroethane	0.50	U	50.0	50.5		ug/L		101	75 - 130
1,1-Dichloroethene	0.36	U	50.0	52.6		ug/L		105	74 - 125
1,2-Dichloropropane	0.67	U	50.0	48.1		ug/L		96	80 - 123
1,3-Dichloropropane	0.34	U	50.0	48.5		ug/L		97	78 - 127
2,2-Dichloropropane	0.37	U	50.0	41.2		ug/L		82	72 - 133
1,1-Dichloropropene	0.34	U	50.0	50.9		ug/L		102	78 - 127
Ethylbenzene	0.33	U	50.0	49.0		ug/L		98	80 - 120
Hexachlorobutadiene	2.5	U	50.0	46.0		ug/L		92	77 - 129
2-Hexanone	2.0	U	250	235		ug/L		94	70 - 141
Iodomethane	5.0	U	50.0	46.5		ug/L		93	15 - 162
Isopropylbenzene	0.35	U	50.0	50.4		ug/L		101	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: 680-169087-9 MS

Matrix: Water

Analysis Batch: 571700

Client Sample ID: OLF-G42

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	2.5	U	50.0	47.2		ug/L		94	76 - 129
4-Methyl-2-pentanone	2.1	U	250	242		ug/L		97	75 - 135
Methyl tert-butyl ether	0.30	U	50.0	49.0		ug/L		98	74 - 135
m-Xylene & p-Xylene	0.35	U	50.0	49.0		ug/L		98	80 - 120
Naphthalene	2.5	U	50.0	47.5		ug/L		95	69 - 148
n-Butylbenzene	0.47	U	50.0	46.4		ug/L		93	78 - 124
N-Propylbenzene	0.38	U	50.0	49.7		ug/L		99	80 - 120
o-Xylene	0.23	U	50.0	49.3		ug/L		99	80 - 120
p-Isopropyltoluene	0.48	U	50.0	48.2		ug/L		96	80 - 120
sec-Butylbenzene	0.42	U	50.0	49.5		ug/L		99	76 - 125
Styrene	0.27	U	50.0	49.4		ug/L		99	80 - 122
tert-Butylbenzene	0.45	U	50.0	50.5		ug/L		101	80 - 120
1,1,1,2-Tetrachloroethane	0.37	U	50.0	53.0		ug/L		106	80 - 120
1,1,2,2-Tetrachloroethane	0.62	U	50.0	49.3		ug/L		99	72 - 128
Tetrachloroethylene	0.74	U	50.0	51.3		ug/L		103	77 - 123
Toluene	0.48	U	50.0	50.7		ug/L		101	80 - 122
trans-1,4-Dichloro-2-butene	0.51	U	50.0	48.1		ug/L		96	55 - 147
trans-1,2-Dichloroethene	0.64	J	50.0	52.1		ug/L		103	78 - 123
trans-1,3-Dichloropropene	0.42	U	50.0	49.2		ug/L		98	74 - 140
1,2,3-Trichlorobenzene	2.5	U	50.0	45.8		ug/L		92	61 - 151
1,2,4-Trichlorobenzene	2.5	U	50.0	45.6		ug/L		91	77 - 131
1,1,1-Trichloroethane	0.37	U	50.0	52.6		ug/L		105	74 - 128
1,1,2-Trichloroethane	0.33	U	50.0	50.6		ug/L		101	79 - 125
Trichloroethene	11		50.0	63.0		ug/L		104	80 - 123
Trichlorofluoromethane	0.42	U	50.0	52.2		ug/L		104	58 - 145
1,2,3-Trichloropropane	0.39	U	50.0	50.2		ug/L		100	70 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	50.0	49.2		ug/L		98	65 - 131
1,2,4-Trimethylbenzene	0.47	U	50.0	48.5		ug/L		97	80 - 124
1,3,5-Trimethylbenzene	0.31	U	50.0	48.7		ug/L		97	80 - 120
Vinyl acetate	0.81	U	100	87.5		ug/L		87	15 - 190
Vinyl chloride	1.4		50.1	51.1		ug/L		99	68 - 132
Xylenes, Total	0.23	U	100	98.3		ug/L		98	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	99		80 - 122
1,2-Dichloroethane-d4 (Surr)	98		73 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: 680-169087-9 MSD

Matrix: Water

Analysis Batch: 571700

Client Sample ID: OLF-G42

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	7.0	U	250	223		ug/L		89	60 - 154	3	30
Acrylonitrile	10	U	500	444		ug/L		89	72 - 132	2	20
Benzene	0.43	U	50.0	48.1		ug/L		96	73 - 131	3	20
Bromobenzene	0.50	U	50.0	49.2		ug/L		98	79 - 124	0	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: 680-169087-9 MSD

Matrix: Water

Analysis Batch: 571700

Client Sample ID: OLF-G42

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromochloromethane	0.45	U	50.0	47.9		ug/L		96	77 - 122	1	20
Bromodichloromethane	0.44	U	50.0	49.9		ug/L		100	77 - 129	3	20
Bromoform	0.43	U	50.0	53.2		ug/L		106	69 - 135	2	20
Bromomethane	2.5	U F2	50.1	41.7	F2	ug/L		83	20 - 180	23	20
2-Butanone (MEK)	3.4	U	250	246		ug/L		99	75 - 133	0	20
Carbon disulfide	1.0	U	50.0	49.2		ug/L		98	73 - 127	2	20
Carbon tetrachloride	0.33	U	50.0	53.1		ug/L		106	75 - 130	1	20
Chlorobenzene	0.26	U	50.0	48.8		ug/L		98	80 - 120	2	20
Chloroethane	2.5	U	50.0	49.3		ug/L		99	50 - 151	2	20
Chloroform	0.50	U	50.0	50.7		ug/L		101	79 - 122	2	20
Chloromethane	0.40	U	50.0	49.6		ug/L		99	63 - 126	2	30
2-Chlorotoluene	0.27	U	50.0	48.4		ug/L		97	77 - 121	2	20
4-Chlorotoluene	0.45	U	50.0	48.6		ug/L		97	80 - 120	1	20
cis-1,2-Dichloroethene	2.8		50.0	49.8		ug/L		94	80 - 122	3	20
cis-1,3-Dichloropropene	0.40	U	50.0	48.6		ug/L		97	80 - 133	2	20
Dibromochloromethane	0.32	U	50.0	51.6		ug/L		103	71 - 136	3	20
1,2-Dibromo-3-Chloropropane	1.1	U	50.0	51.3		ug/L		103	59 - 141	0	20
1,2-Dibromoethane	0.44	U	50.0	48.5		ug/L		97	77 - 131	2	20
Dibromomethane	0.35	U	50.0	49.0		ug/L		98	80 - 122	4	20
1,2-Dichlorobenzene	0.37	U	50.0	46.5		ug/L		93	80 - 120	3	20
1,3-Dichlorobenzene	0.43	U	50.0	47.4		ug/L		95	80 - 120	2	20
1,4-Dichlorobenzene	0.46	U	50.0	46.5		ug/L		93	80 - 120	3	20
Dichlorodifluoromethane	0.60	U	50.1	46.0		ug/L		92	51 - 140	2	40
1,1-Dichloroethane	0.38	U	50.0	49.1		ug/L		98	80 - 120	3	20
1,2-Dichloroethane	0.50	U	50.0	49.2		ug/L		98	75 - 130	3	50
1,1-Dichloroethene	0.36	U	50.0	51.5		ug/L		103	74 - 125	2	20
1,2-Dichloropropane	0.67	U	50.0	46.5		ug/L		93	80 - 123	4	20
1,3-Dichloropropane	0.34	U	50.0	47.3		ug/L		95	78 - 127	2	20
2,2-Dichloropropane	0.37	U	50.0	39.7		ug/L		79	72 - 133	4	20
1,1-Dichloropropene	0.34	U	50.0	49.1		ug/L		98	78 - 127	4	20
Ethylbenzene	0.33	U	50.0	49.1		ug/L		98	80 - 120	0	20
Hexachlorobutadiene	2.5	U	50.0	44.9		ug/L		90	77 - 129	2	20
2-Hexanone	2.0	U	250	233		ug/L		93	70 - 141	1	20
Iodomethane	5.0	U	50.0	47.3		ug/L		95	15 - 162	2	30
Isopropylbenzene	0.35	U	50.0	49.8		ug/L		100	80 - 120	1	20
Methylene Chloride	2.5	U	50.0	46.8		ug/L		94	76 - 129	1	20
4-Methyl-2-pentanone	2.1	U	250	240		ug/L		96	75 - 135	1	20
Methyl tert-butyl ether	0.30	U	50.0	48.6		ug/L		97	74 - 135	1	20
m-Xylene & p-Xylene	0.35	U	50.0	48.7		ug/L		97	80 - 120	1	20
Naphthalene	2.5	U	50.0	47.8		ug/L		96	69 - 148	1	20
n-Butylbenzene	0.47	U	50.0	46.4		ug/L		93	78 - 124	0	20
N-Propylbenzene	0.38	U	50.0	48.7		ug/L		97	80 - 120	2	20
o-Xylene	0.23	U	50.0	48.2		ug/L		96	80 - 120	2	30
p-Isopropyltoluene	0.48	U	50.0	47.8		ug/L		96	80 - 120	1	20
sec-Butylbenzene	0.42	U	50.0	48.7		ug/L		97	76 - 125	2	20
Styrene	0.27	U	50.0	48.4		ug/L		97	80 - 122	2	20
tert-Butylbenzene	0.45	U	50.0	49.9		ug/L		100	80 - 120	1	20
1,1,1,2-Tetrachloroethane	0.37	U	50.0	52.1		ug/L		104	80 - 120	2	20
1,1,2,2-Tetrachloroethane	0.62	U	50.0	48.6		ug/L		97	72 - 128	1	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: 680-169087-9 MSD

Matrix: Water

Analysis Batch: 571700

Client Sample ID: OLF-G42

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethylene	0.74	U	50.0	51.7		ug/L		103	77 - 123	1	20
Toluene	0.48	U	50.0	50.0		ug/L		100	80 - 122	2	20
trans-1,4-Dichloro-2-butene	0.51	U	50.0	47.3		ug/L		95	55 - 147	2	30
trans-1,2-Dichloroethene	0.64	J	50.0	50.9		ug/L		101	78 - 123	2	20
trans-1,3-Dichloropropene	0.42	U	50.0	48.0		ug/L		96	74 - 140	2	30
1,2,3-Trichlorobenzene	2.5	U	50.0	46.0		ug/L		92	61 - 151	1	20
1,2,4-Trichlorobenzene	2.5	U	50.0	45.1		ug/L		90	77 - 131	1	20
1,1,1-Trichloroethane	0.37	U	50.0	51.3		ug/L		103	74 - 128	3	20
1,1,2-Trichloroethane	0.33	U	50.0	49.7		ug/L		99	79 - 125	2	20
Trichloroethene	11		50.0	60.9		ug/L		100	80 - 123	3	20
Trichlorofluoromethane	0.42	U	50.0	51.8		ug/L		104	58 - 145	1	20
1,2,3-Trichloropropane	0.39	U	50.0	50.5		ug/L		101	70 - 132	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	50.0	48.7		ug/L		97	65 - 131	1	20
1,2,4-Trimethylbenzene	0.47	U	50.0	48.1		ug/L		96	80 - 124	1	20
1,3,5-Trimethylbenzene	0.31	U	50.0	49.1		ug/L		98	80 - 120	1	20
Vinyl acetate	0.81	U	100	86.3		ug/L		86	15 - 190	1	20
Vinyl chloride	1.4		50.1	50.3		ug/L		98	68 - 132	2	20
Xylenes, Total	0.23	U	100	96.9		ug/L		97	80 - 120	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	96		80 - 122
1,2-Dichloroethane-d4 (Surr)	93		73 - 131
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: MB 680-571803/9

Matrix: Water

Analysis Batch: 571803

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/25/19 13:52	1
Acrylonitrile	10	U	20	10	ug/L			05/25/19 13:52	1
Benzene	0.43	U	1.0	0.43	ug/L			05/25/19 13:52	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/25/19 13:52	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/25/19 13:52	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/25/19 13:52	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/25/19 13:52	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/25/19 13:52	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/25/19 13:52	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/25/19 13:52	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/25/19 13:52	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/25/19 13:52	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/25/19 13:52	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/25/19 13:52	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/25/19 13:52	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/25/19 13:52	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/25/19 13:52	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/25/19 13:52	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: MB 680-571803/9

Matrix: Water

Analysis Batch: 571803

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/25/19 13:52	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/25/19 13:52	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/25/19 13:52	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/25/19 13:52	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/25/19 13:52	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/25/19 13:52	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/25/19 13:52	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/25/19 13:52	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/25/19 13:52	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/25/19 13:52	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/25/19 13:52	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/25/19 13:52	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/25/19 13:52	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/25/19 13:52	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/25/19 13:52	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/25/19 13:52	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/25/19 13:52	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/25/19 13:52	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/25/19 13:52	1
Iodomethane	5.0	U	10	5.0	ug/L			05/25/19 13:52	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/25/19 13:52	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/25/19 13:52	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/25/19 13:52	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/25/19 13:52	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/25/19 13:52	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/25/19 13:52	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/25/19 13:52	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/25/19 13:52	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/25/19 13:52	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/25/19 13:52	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/25/19 13:52	1
Styrene	0.27	U	1.0	0.27	ug/L			05/25/19 13:52	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/25/19 13:52	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/25/19 13:52	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/25/19 13:52	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/25/19 13:52	1
Toluene	0.48	U	1.0	0.48	ug/L			05/25/19 13:52	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/25/19 13:52	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/25/19 13:52	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/25/19 13:52	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/25/19 13:52	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/25/19 13:52	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/25/19 13:52	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/25/19 13:52	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/25/19 13:52	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/25/19 13:52	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/25/19 13:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/25/19 13:52	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/25/19 13:52	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: MB 680-571803/9

Matrix: Water

Analysis Batch: 571803

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/25/19 13:52	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/25/19 13:52	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/25/19 13:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/25/19 13:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		05/25/19 13:52	1
Dibromofluoromethane (Surr)	105		80 - 122		05/25/19 13:52	1
1,2-Dichloroethane-d4 (Surr)	107		73 - 131		05/25/19 13:52	1
Toluene-d8 (Surr)	100		80 - 120		05/25/19 13:52	1

Lab Sample ID: LCS 680-571803/4

Matrix: Water

Analysis Batch: 571803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	242		ug/L		97	70 - 135
Acrylonitrile	500	470		ug/L		94	80 - 123
Benzene	50.0	49.3		ug/L		99	80 - 120
Bromobenzene	50.0	51.2		ug/L		102	80 - 121
Bromochloromethane	50.0	50.9		ug/L		102	80 - 120
Bromodichloromethane	50.0	50.7		ug/L		101	80 - 120
Bromoform	50.0	54.2		ug/L		108	74 - 126
Bromomethane	50.0	52.7		ug/L		105	62 - 130
2-Butanone (MEK)	250	262		ug/L		105	80 - 131
Carbon disulfide	50.0	49.2		ug/L		98	80 - 120
Carbon tetrachloride	50.0	52.9		ug/L		106	76 - 123
Chlorobenzene	50.0	50.3		ug/L		101	80 - 120
Chloroethane	50.0	50.3		ug/L		101	66 - 135
Chloroform	50.0	51.8		ug/L		104	80 - 120
Chloromethane	50.0	50.0		ug/L		100	69 - 131
2-Chlorotoluene	50.0	50.8		ug/L		102	80 - 120
4-Chlorotoluene	50.0	50.8		ug/L		102	80 - 120
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	80 - 120
cis-1,3-Dichloropropene	50.0	53.0		ug/L		106	80 - 120
Dibromochloromethane	50.0	53.0		ug/L		106	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	51.1		ug/L		102	71 - 134
1,2-Dibromoethane	50.0	52.3		ug/L		105	80 - 120
Dibromomethane	50.0	50.9		ug/L		102	80 - 120
1,2-Dichlorobenzene	50.0	49.0		ug/L		98	80 - 120
1,3-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120
1,4-Dichlorobenzene	50.0	47.9		ug/L		96	80 - 120
Dichlorodifluoromethane	50.0	55.1		ug/L		110	47 - 155
1,1-Dichloroethane	50.0	49.9		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	51.1		ug/L		102	80 - 120
1,1-Dichloroethene	50.0	49.9		ug/L		100	76 - 120
1,2-Dichloropropane	50.0	47.5		ug/L		95	80 - 120
1,3-Dichloropropane	50.0	50.1		ug/L		100	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCS 680-571803/4

Matrix: Water

Analysis Batch: 571803

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	54.1		ug/L		108	76 - 126
1,1-Dichloropropene	50.0	51.1		ug/L		102	80 - 120
Ethylbenzene	50.0	50.1		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	45.6		ug/L		91	60 - 140
2-Hexanone	250	248		ug/L		99	74 - 127
Iodomethane	50.0	49.9		ug/L		100	52 - 142
Isopropylbenzene	50.0	51.0		ug/L		102	80 - 120
Methylene Chloride	50.0	48.1		ug/L		96	80 - 120
4-Methyl-2-pentanone	250	250		ug/L		100	76 - 124
Methyl tert-butyl ether	50.0	50.8		ug/L		102	80 - 120
m-Xylene & p-Xylene	50.0	51.2		ug/L		102	80 - 120
Naphthalene	50.0	48.6		ug/L		97	59 - 140
n-Butylbenzene	50.0	48.0		ug/L		96	80 - 120
N-Propylbenzene	50.0	51.6		ug/L		103	80 - 120
o-Xylene	50.0	50.9		ug/L		102	80 - 120
p-Isopropyltoluene	50.0	49.3		ug/L		99	80 - 120
sec-Butylbenzene	50.0	51.4		ug/L		103	80 - 120
Styrene	50.0	51.6		ug/L		103	80 - 120
tert-Butylbenzene	50.0	51.9		ug/L		104	80 - 121
1,1,1,2-Tetrachloroethane	50.0	54.2		ug/L		108	80 - 121
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L		102	80 - 120
Tetrachloroethylene	50.0	52.2		ug/L		104	80 - 121
Toluene	50.0	50.7		ug/L		101	80 - 113
trans-1,4-Dichloro-2-butene	50.0	54.2		ug/L		108	68 - 125
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	80 - 120
trans-1,3-Dichloropropene	50.0	56.0		ug/L		112	80 - 120
1,2,3-Trichlorobenzene	50.0	46.8		ug/L		94	61 - 141
1,2,4-Trichlorobenzene	50.0	46.2		ug/L		92	68 - 128
1,1,1-Trichloroethane	50.0	51.5		ug/L		103	80 - 120
1,1,2-Trichloroethane	50.0	51.8		ug/L		104	80 - 120
Trichloroethene	50.0	52.0		ug/L		104	80 - 120
Trichlorofluoromethane	50.0	51.8		ug/L		104	60 - 141
1,2,3-Trichloropropane	50.0	52.6		ug/L		105	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.1		ug/L		102	79 - 124
1,2,4-Trimethylbenzene	50.0	50.8		ug/L		102	80 - 120
1,3,5-Trimethylbenzene	50.0	52.5		ug/L		105	80 - 120
Vinyl acetate	100	91.6		ug/L		92	67 - 135
Vinyl chloride	50.0	48.7		ug/L		97	71 - 128
Xylenes, Total	100	102		ug/L		102	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	101		73 - 131
Toluene-d8 (Surr)	99		80 - 120

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCSD 680-571803/5

Matrix: Water

Analysis Batch: 571803

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	245		ug/L		98	70 - 135	1	30
Acrylonitrile	500	501		ug/L		100	80 - 123	6	20
Benzene	50.0	49.9		ug/L		100	80 - 120	1	20
Bromobenzene	50.0	51.0		ug/L		102	80 - 121	0	20
Bromochloromethane	50.0	52.2		ug/L		104	80 - 120	2	20
Bromodichloromethane	50.0	51.9		ug/L		104	80 - 120	2	20
Bromoform	50.0	56.3		ug/L		113	74 - 126	4	20
Bromomethane	50.0	48.8		ug/L		98	62 - 130	8	20
2-Butanone (MEK)	250	277		ug/L		111	80 - 131	6	20
Carbon disulfide	50.0	49.9		ug/L		100	80 - 120	1	20
Carbon tetrachloride	50.0	53.0		ug/L		106	76 - 123	0	20
Chlorobenzene	50.0	50.1		ug/L		100	80 - 120	0	20
Chloroethane	50.0	49.9		ug/L		100	66 - 135	1	20
Chloroform	50.0	52.7		ug/L		105	80 - 120	2	20
Chloromethane	50.0	49.1		ug/L		98	69 - 131	2	30
2-Chlorotoluene	50.0	50.4		ug/L		101	80 - 120	1	20
4-Chlorotoluene	50.0	50.4		ug/L		101	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	54.2		ug/L		108	80 - 120	2	20
Dibromochloromethane	50.0	55.2		ug/L		110	80 - 121	4	20
1,2-Dibromo-3-Chloropropane	50.0	51.0		ug/L		102	71 - 134	0	20
1,2-Dibromoethane	50.0	53.8		ug/L		108	80 - 120	3	20
Dibromomethane	50.0	52.1		ug/L		104	80 - 120	2	20
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120	1	20
1,3-Dichlorobenzene	50.0	47.6		ug/L		95	80 - 120	0	20
1,4-Dichlorobenzene	50.0	48.3		ug/L		97	80 - 120	1	20
Dichlorodifluoromethane	50.0	55.3		ug/L		111	47 - 155	0	40
1,1-Dichloroethane	50.0	50.0		ug/L		100	80 - 120	0	20
1,2-Dichloroethane	50.0	52.0		ug/L		104	80 - 120	2	50
1,1-Dichloroethene	50.0	50.1		ug/L		100	76 - 120	0	20
1,2-Dichloropropane	50.0	48.5		ug/L		97	80 - 120	2	20
1,3-Dichloropropane	50.0	52.0		ug/L		104	80 - 120	4	20
2,2-Dichloropropane	50.0	53.5		ug/L		107	76 - 126	1	20
1,1-Dichloropropene	50.0	50.6		ug/L		101	80 - 120	1	20
Ethylbenzene	50.0	49.5		ug/L		99	80 - 120	1	20
Hexachlorobutadiene	50.0	46.1		ug/L		92	60 - 140	1	20
2-Hexanone	250	258		ug/L		103	74 - 127	4	20
Iodomethane	50.0	50.4		ug/L		101	52 - 142	1	30
Isopropylbenzene	50.0	50.3		ug/L		101	80 - 120	1	20
Methylene Chloride	50.0	48.5		ug/L		97	80 - 120	1	20
4-Methyl-2-pentanone	250	259		ug/L		104	76 - 124	4	20
Methyl tert-butyl ether	50.0	52.4		ug/L		105	80 - 120	3	20
m-Xylene & p-Xylene	50.0	50.3		ug/L		101	80 - 120	2	20
Naphthalene	50.0	50.4		ug/L		101	59 - 140	4	20
n-Butylbenzene	50.0	46.9		ug/L		94	80 - 120	2	20
N-Propylbenzene	50.0	50.7		ug/L		101	80 - 120	2	20
o-Xylene	50.0	50.4		ug/L		101	80 - 120	1	30
p-Isopropyltoluene	50.0	48.7		ug/L		97	80 - 120	1	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCSD 680-571803/5

Matrix: Water

Analysis Batch: 571803

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
sec-Butylbenzene	50.0	51.1		ug/L		102	80 - 120	1	20
Styrene	50.0	51.0		ug/L		102	80 - 120	1	20
tert-Butylbenzene	50.0	51.1		ug/L		102	80 - 121	2	20
1,1,1,2-Tetrachloroethane	50.0	53.6		ug/L		107	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	80 - 120	1	20
Tetrachloroethylene	50.0	52.8		ug/L		106	80 - 121	1	20
Toluene	50.0	51.5		ug/L		103	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	54.2		ug/L		108	68 - 125	0	30
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	57.6		ug/L		115	80 - 120	3	30
1,2,3-Trichlorobenzene	50.0	48.0		ug/L		96	61 - 141	3	20
1,2,4-Trichlorobenzene	50.0	47.1		ug/L		94	68 - 128	2	20
1,1,1-Trichloroethane	50.0	51.9		ug/L		104	80 - 120	1	20
1,1,2-Trichloroethane	50.0	52.5		ug/L		105	80 - 120	1	20
Trichloroethene	50.0	52.1		ug/L		104	80 - 120	0	20
Trichlorofluoromethane	50.0	52.6		ug/L		105	60 - 141	1	20
1,2,3-Trichloropropane	50.0	53.0		ug/L		106	80 - 123	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.9		ug/L		100	79 - 124	2	20
1,2,4-Trimethylbenzene	50.0	50.2		ug/L		100	80 - 120	1	20
1,3,5-Trimethylbenzene	50.0	51.4		ug/L		103	80 - 120	2	20
Vinyl acetate	100	93.5		ug/L		94	67 - 135	2	20
Vinyl chloride	50.0	48.6		ug/L		97	71 - 128	0	20
Xylenes, Total	100	101		ug/L		101	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	104		80 - 122
1,2-Dichloroethane-d4 (Surr)	99		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 680-571989/20

Matrix: Water

Analysis Batch: 571989

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/28/19 19:08	1
Acrylonitrile	10	U	20	10	ug/L			05/28/19 19:08	1
Benzene	0.43	U	1.0	0.43	ug/L			05/28/19 19:08	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/28/19 19:08	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/28/19 19:08	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/28/19 19:08	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/28/19 19:08	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/28/19 19:08	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/28/19 19:08	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/28/19 19:08	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/28/19 19:08	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/28/19 19:08	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/28/19 19:08	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: MB 680-571989/20

Matrix: Water

Analysis Batch: 571989

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.50	U	1.0	0.50	ug/L			05/28/19 19:08	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/28/19 19:08	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/28/19 19:08	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/28/19 19:08	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/28/19 19:08	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/28/19 19:08	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/28/19 19:08	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/28/19 19:08	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/28/19 19:08	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/28/19 19:08	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/28/19 19:08	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/28/19 19:08	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/28/19 19:08	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/28/19 19:08	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/28/19 19:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/28/19 19:08	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/28/19 19:08	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/28/19 19:08	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/28/19 19:08	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/28/19 19:08	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/28/19 19:08	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/28/19 19:08	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/28/19 19:08	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/28/19 19:08	1
Iodomethane	5.0	U	10	5.0	ug/L			05/28/19 19:08	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/28/19 19:08	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/28/19 19:08	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/28/19 19:08	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/28/19 19:08	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/28/19 19:08	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/28/19 19:08	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/28/19 19:08	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/28/19 19:08	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/28/19 19:08	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/28/19 19:08	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/28/19 19:08	1
Styrene	0.27	U	1.0	0.27	ug/L			05/28/19 19:08	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/28/19 19:08	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/28/19 19:08	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/28/19 19:08	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/28/19 19:08	1
Toluene	0.48	U	1.0	0.48	ug/L			05/28/19 19:08	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/28/19 19:08	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/28/19 19:08	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/28/19 19:08	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/28/19 19:08	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/28/19 19:08	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/28/19 19:08	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/28/19 19:08	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: MB 680-571989/20

Matrix: Water

Analysis Batch: 571989

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/28/19 19:08	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/28/19 19:08	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/28/19 19:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/28/19 19:08	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/28/19 19:08	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/28/19 19:08	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/28/19 19:08	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/28/19 19:08	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/28/19 19:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		05/28/19 19:08	1
Dibromofluoromethane (Surr)	110		80 - 122		05/28/19 19:08	1
1,2-Dichloroethane-d4 (Surr)	106		73 - 131		05/28/19 19:08	1
Toluene-d8 (Surr)	114		80 - 120		05/28/19 19:08	1

Lab Sample ID: LCS 680-571989/16

Matrix: Water

Analysis Batch: 571989

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	259		ug/L		103	70 - 135
Acrylonitrile	500	562		ug/L		112	80 - 123
Benzene	50.0	52.0		ug/L		104	80 - 120
Bromobenzene	50.0	54.0		ug/L		108	80 - 121
Bromochloromethane	50.0	54.2		ug/L		108	80 - 120
Bromodichloromethane	50.0	54.5		ug/L		109	80 - 120
Bromoform	50.0	53.0		ug/L		106	74 - 126
Bromomethane	50.1	43.7		ug/L		87	62 - 130
2-Butanone (MEK)	250	273		ug/L		109	80 - 131
Carbon disulfide	50.0	50.9		ug/L		102	80 - 120
Carbon tetrachloride	50.0	53.1		ug/L		106	76 - 123
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120
Chloroethane	50.0	51.9		ug/L		104	66 - 135
Chloroform	50.0	50.8		ug/L		102	80 - 120
Chloromethane	50.0	55.2		ug/L		110	69 - 131
2-Chlorotoluene	50.0	52.4		ug/L		105	80 - 120
4-Chlorotoluene	50.0	52.1		ug/L		104	80 - 120
cis-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	57.4		ug/L		115	80 - 120
Dibromochloromethane	50.0	52.5		ug/L		105	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	56.7		ug/L		113	71 - 134
1,2-Dibromoethane	50.0	54.0		ug/L		108	80 - 120
Dibromomethane	50.0	54.0		ug/L		108	80 - 120
1,2-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 120
1,3-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120
Dichlorodifluoromethane	50.1	53.8		ug/L		108	47 - 155

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCS 680-571989/16

Matrix: Water

Analysis Batch: 571989

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	50.0		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	53.1		ug/L		106	80 - 120
1,1-Dichloroethene	50.0	53.3		ug/L		107	76 - 120
1,2-Dichloropropane	50.0	53.1		ug/L		106	80 - 120
1,3-Dichloropropane	50.0	50.2		ug/L		100	80 - 120
2,2-Dichloropropane	50.0	54.2		ug/L		108	76 - 126
1,1-Dichloropropene	50.0	50.9		ug/L		102	80 - 120
Ethylbenzene	50.0	50.8		ug/L		102	80 - 120
Hexachlorobutadiene	50.0	52.8		ug/L		106	60 - 140
2-Hexanone	250	256		ug/L		102	74 - 127
Iodomethane	50.0	39.5		ug/L		79	52 - 142
Isopropylbenzene	50.0	51.4		ug/L		103	80 - 120
Methylene Chloride	50.0	53.5		ug/L		107	80 - 120
4-Methyl-2-pentanone	250	293		ug/L		117	76 - 124
Methyl tert-butyl ether	50.0	54.7		ug/L		109	80 - 120
m-Xylene & p-Xylene	50.0	51.6		ug/L		103	80 - 120
Naphthalene	50.0	56.7		ug/L		113	59 - 140
n-Butylbenzene	50.0	49.1		ug/L		98	80 - 120
N-Propylbenzene	50.0	52.6		ug/L		105	80 - 120
o-Xylene	50.0	51.1		ug/L		102	80 - 120
p-Isopropyltoluene	50.0	50.7		ug/L		101	80 - 120
sec-Butylbenzene	50.0	52.4		ug/L		105	80 - 120
Styrene	50.0	53.0		ug/L		106	80 - 120
tert-Butylbenzene	50.0	51.8		ug/L		104	80 - 121
1,1,1,2-Tetrachloroethane	50.0	51.2		ug/L		102	80 - 121
1,1,2,2-Tetrachloroethane	50.0	53.6		ug/L		107	80 - 120
Tetrachloroethylene	50.0	49.4		ug/L		99	80 - 121
Toluene	50.0	52.5		ug/L		105	80 - 113
trans-1,4-Dichloro-2-butene	50.0	52.1		ug/L		104	68 - 125
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	80 - 120
trans-1,3-Dichloropropene	50.0	55.3		ug/L		111	80 - 120
1,2,3-Trichlorobenzene	50.0	55.0		ug/L		110	61 - 141
1,2,4-Trichlorobenzene	50.0	54.6		ug/L		109	68 - 128
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	80 - 120
Trichloroethene	50.0	50.8		ug/L		102	80 - 120
Trichlorofluoromethane	50.0	50.3		ug/L		101	60 - 141
1,2,3-Trichloropropane	50.0	54.5		ug/L		109	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.4		ug/L		107	79 - 124
1,2,4-Trimethylbenzene	50.0	53.7		ug/L		107	80 - 120
1,3,5-Trimethylbenzene	50.0	52.5		ug/L		105	80 - 120
Vinyl acetate	100	126		ug/L		126	67 - 135
Vinyl chloride	50.1	56.6		ug/L		113	71 - 128
Xylenes, Total	100	103		ug/L		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCS 680-571989/16

Matrix: Water

Analysis Batch: 571989

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	106		73 - 131
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 680-571989/17

Matrix: Water

Analysis Batch: 571989

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	260		ug/L		104	70 - 135	1	30
Acrylonitrile	500	562		ug/L		112	80 - 123	0	20
Benzene	50.0	51.3		ug/L		103	80 - 120	1	20
Bromobenzene	50.0	50.5		ug/L		101	80 - 121	7	20
Bromochloromethane	50.0	52.4		ug/L		105	80 - 120	3	20
Bromodichloromethane	50.0	50.0		ug/L		100	80 - 120	9	20
Bromoform	50.0	48.9		ug/L		98	74 - 126	8	20
Bromomethane	50.1	45.5		ug/L		91	62 - 130	4	20
2-Butanone (MEK)	250	270		ug/L		108	80 - 131	1	20
Carbon disulfide	50.0	52.3		ug/L		105	80 - 120	3	20
Carbon tetrachloride	50.0	54.6		ug/L		109	76 - 123	3	20
Chlorobenzene	50.0	50.1		ug/L		100	80 - 120	1	20
Chloroethane	50.0	51.6		ug/L		103	66 - 135	1	20
Chloroform	50.0	50.1		ug/L		100	80 - 120	1	20
Chloromethane	50.0	53.9		ug/L		108	69 - 131	2	30
2-Chlorotoluene	50.0	52.5		ug/L		105	80 - 120	0	20
4-Chlorotoluene	50.0	53.5		ug/L		107	80 - 120	3	20
cis-1,2-Dichloroethene	50.0	49.4		ug/L		99	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	80 - 120	14	20
Dibromochloromethane	50.0	52.6		ug/L		105	80 - 121	0	20
1,2-Dibromo-3-Chloropropane	50.0	52.4		ug/L		105	71 - 134	8	20
1,2-Dibromoethane	50.0	53.9		ug/L		108	80 - 120	0	20
Dibromomethane	50.0	48.9		ug/L		98	80 - 120	10	20
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120	2	20
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	2	20
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120	1	20
Dichlorodifluoromethane	50.1	56.2		ug/L		112	47 - 155	4	40
1,1-Dichloroethane	50.0	50.2		ug/L		100	80 - 120	0	20
1,2-Dichloroethane	50.0	53.3		ug/L		107	80 - 120	0	50
1,1-Dichloroethene	50.0	54.4		ug/L		109	76 - 120	2	20
1,2-Dichloropropane	50.0	46.8		ug/L		94	80 - 120	13	20
1,3-Dichloropropane	50.0	54.3		ug/L		109	80 - 120	8	20
2,2-Dichloropropane	50.0	54.4		ug/L		109	76 - 126	0	20
1,1-Dichloropropene	50.0	51.2		ug/L		102	80 - 120	1	20
Ethylbenzene	50.0	50.8		ug/L		102	80 - 120	0	20
Hexachlorobutadiene	50.0	50.5		ug/L		101	60 - 140	4	20
2-Hexanone	250	283		ug/L		113	74 - 127	10	20
Iodomethane	50.0	41.9		ug/L		84	52 - 142	6	30
Isopropylbenzene	50.0	46.0		ug/L		92	80 - 120	11	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCSD 680-571989/17

Matrix: Water

Analysis Batch: 571989

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
Methylene Chloride	50.0	53.6		ug/L		107	80 - 120	0	20
4-Methyl-2-pentanone	250	259		ug/L		104	76 - 124	12	20
Methyl tert-butyl ether	50.0	53.9		ug/L		108	80 - 120	1	20
m-Xylene & p-Xylene	50.0	50.9		ug/L		102	80 - 120	1	20
Naphthalene	50.0	52.8		ug/L		106	59 - 140	7	20
n-Butylbenzene	50.0	51.5		ug/L		103	80 - 120	5	20
N-Propylbenzene	50.0	52.6		ug/L		105	80 - 120	0	20
o-Xylene	50.0	50.0		ug/L		100	80 - 120	2	30
p-Isopropyltoluene	50.0	50.8		ug/L		102	80 - 120	0	20
sec-Butylbenzene	50.0	53.0		ug/L		106	80 - 120	1	20
Styrene	50.0	50.4		ug/L		101	80 - 120	5	20
tert-Butylbenzene	50.0	52.4		ug/L		105	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	50.7		ug/L		101	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	80 - 120	6	20
Tetrachloroethylene	50.0	52.3		ug/L		105	80 - 121	6	20
Toluene	50.0	52.2		ug/L		104	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	54.2		ug/L		108	68 - 125	4	30
trans-1,2-Dichloroethene	50.0	51.0		ug/L		102	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	55.2		ug/L		110	80 - 120	0	30
1,2,3-Trichlorobenzene	50.0	51.2		ug/L		102	61 - 141	7	20
1,2,4-Trichlorobenzene	50.0	50.6		ug/L		101	68 - 128	8	20
1,1,1-Trichloroethane	50.0	51.8		ug/L		104	80 - 120	2	20
1,1,2-Trichloroethane	50.0	53.7		ug/L		107	80 - 120	8	20
Trichloroethene	50.0	49.6		ug/L		99	80 - 120	2	20
Trichlorofluoromethane	50.0	52.6		ug/L		105	60 - 141	4	20
1,2,3-Trichloropropane	50.0	54.0		ug/L		108	80 - 123	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.6		ug/L		111	79 - 124	4	20
1,2,4-Trimethylbenzene	50.0	53.5		ug/L		107	80 - 120	0	20
1,3,5-Trimethylbenzene	50.0	52.4		ug/L		105	80 - 120	0	20
Vinyl acetate	100	124		ug/L		124	67 - 135	2	20
Vinyl chloride	50.1	57.6		ug/L		115	71 - 128	2	20
Xylenes, Total	100	101		ug/L		101	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	103		73 - 131
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: MB 680-572037/10

Matrix: Water

Analysis Batch: 572037

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/28/19 23:09	1
Acrylonitrile	10	U	20	10	ug/L			05/28/19 23:09	1
Benzene	0.43	U	1.0	0.43	ug/L			05/28/19 23:09	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/28/19 23:09	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: MB 680-572037/10

Matrix: Water

Analysis Batch: 572037

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/28/19 23:09	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/28/19 23:09	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/28/19 23:09	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/28/19 23:09	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/28/19 23:09	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/28/19 23:09	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/28/19 23:09	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/28/19 23:09	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/28/19 23:09	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/28/19 23:09	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/28/19 23:09	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/28/19 23:09	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/28/19 23:09	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/28/19 23:09	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/28/19 23:09	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/28/19 23:09	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/28/19 23:09	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/28/19 23:09	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/28/19 23:09	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/28/19 23:09	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/28/19 23:09	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/28/19 23:09	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/28/19 23:09	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/28/19 23:09	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/28/19 23:09	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/28/19 23:09	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/28/19 23:09	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/28/19 23:09	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/28/19 23:09	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/28/19 23:09	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/28/19 23:09	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/28/19 23:09	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/28/19 23:09	1
Iodomethane	5.0	U	10	5.0	ug/L			05/28/19 23:09	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/28/19 23:09	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/28/19 23:09	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/28/19 23:09	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/28/19 23:09	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/28/19 23:09	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/28/19 23:09	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/28/19 23:09	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/28/19 23:09	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/28/19 23:09	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/28/19 23:09	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/28/19 23:09	1
Styrene	0.27	U	1.0	0.27	ug/L			05/28/19 23:09	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/28/19 23:09	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/28/19 23:09	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/28/19 23:09	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: MB 680-572037/10

Matrix: Water

Analysis Batch: 572037

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/28/19 23:09	1
Toluene	0.48	U	1.0	0.48	ug/L			05/28/19 23:09	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/28/19 23:09	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/28/19 23:09	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/28/19 23:09	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/28/19 23:09	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/28/19 23:09	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/28/19 23:09	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/28/19 23:09	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/28/19 23:09	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/28/19 23:09	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/28/19 23:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/28/19 23:09	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/28/19 23:09	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/28/19 23:09	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/28/19 23:09	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/28/19 23:09	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/28/19 23:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		05/28/19 23:09	1
Dibromofluoromethane (Surr)	99		80 - 122		05/28/19 23:09	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		05/28/19 23:09	1
Toluene-d8 (Surr)	101		80 - 120		05/28/19 23:09	1

Lab Sample ID: LCS 680-572037/5

Matrix: Water

Analysis Batch: 572037

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	288		ug/L		115	70 - 135
Acrylonitrile	500	564		ug/L		113	80 - 123
Benzene	50.0	50.9		ug/L		102	80 - 120
Bromobenzene	50.0	52.8		ug/L		106	80 - 121
Bromochloromethane	50.0	55.2		ug/L		110	80 - 120
Bromodichloromethane	50.0	55.1		ug/L		110	80 - 120
Bromoform	50.0	59.1		ug/L		118	74 - 126
Bromomethane	50.0	50.7		ug/L		101	62 - 130
2-Butanone (MEK)	250	319		ug/L		128	80 - 131
Carbon disulfide	50.0	47.7		ug/L		95	80 - 120
Carbon tetrachloride	50.0	52.1		ug/L		104	76 - 123
Chlorobenzene	50.0	52.0		ug/L		104	80 - 120
Chloroethane	50.0	49.6		ug/L		99	66 - 135
Chloroform	50.0	53.5		ug/L		107	80 - 120
Chloromethane	50.0	49.6		ug/L		99	69 - 131
2-Chlorotoluene	50.0	51.8		ug/L		104	80 - 120
4-Chlorotoluene	50.0	51.6		ug/L		103	80 - 120
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCS 680-572037/5

Matrix: Water

Analysis Batch: 572037

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	50.0	54.7		ug/L		109	80 - 120
Dibromochloromethane	50.0	58.8		ug/L		118	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	61.5		ug/L		123	71 - 134
1,2-Dibromoethane	50.0	57.4		ug/L		115	80 - 120
Dibromomethane	50.0	55.9		ug/L		112	80 - 120
1,2-Dichlorobenzene	50.0	52.5		ug/L		105	80 - 120
1,3-Dichlorobenzene	50.0	51.2		ug/L		102	80 - 120
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	80 - 120
Dichlorodifluoromethane	50.0	50.9		ug/L		102	47 - 155
1,1-Dichloroethane	50.0	51.1		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	54.4		ug/L		109	80 - 120
1,1-Dichloroethene	50.0	48.5		ug/L		97	76 - 120
1,2-Dichloropropane	50.0	50.4		ug/L		101	80 - 120
1,3-Dichloropropane	50.0	55.5		ug/L		111	80 - 120
2,2-Dichloropropane	50.0	40.4		ug/L		81	76 - 126
1,1-Dichloropropene	50.0	49.5		ug/L		99	80 - 120
Ethylbenzene	50.0	50.1		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	43.8		ug/L		88	60 - 140
2-Hexanone	250	304		ug/L		122	74 - 127
Iodomethane	50.0	49.2		ug/L		98	52 - 142
Isopropylbenzene	50.0	51.6		ug/L		103	80 - 120
Methylene Chloride	50.0	50.1		ug/L		100	80 - 120
4-Methyl-2-pentanone	250	303		ug/L		121	76 - 124
Methyl tert-butyl ether	50.0	56.2		ug/L		112	80 - 120
m-Xylene & p-Xylene	50.0	50.7		ug/L		101	80 - 120
Naphthalene	50.0	58.6		ug/L		117	59 - 140
n-Butylbenzene	50.0	47.3		ug/L		95	80 - 120
N-Propylbenzene	50.0	50.9		ug/L		102	80 - 120
o-Xylene	50.0	51.0		ug/L		102	80 - 120
p-Isopropyltoluene	50.0	48.5		ug/L		97	80 - 120
sec-Butylbenzene	50.0	50.5		ug/L		101	80 - 120
Styrene	50.0	53.8		ug/L		108	80 - 120
tert-Butylbenzene	50.0	51.4		ug/L		103	80 - 121
1,1,1,2-Tetrachloroethane	50.0	57.1		ug/L		114	80 - 121
1,1,2,2-Tetrachloroethane	50.0	56.4		ug/L		113	80 - 120
Tetrachloroethylene	50.0	52.3		ug/L		105	80 - 121
Toluene	50.0	52.5		ug/L		105	80 - 113
trans-1,4-Dichloro-2-butene	50.0	55.8		ug/L		112	68 - 125
trans-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120
trans-1,3-Dichloropropene	50.0	58.1		ug/L		116	80 - 120
1,2,3-Trichlorobenzene	50.0	51.7		ug/L		103	61 - 141
1,2,4-Trichlorobenzene	50.0	49.3		ug/L		99	68 - 128
1,1,1-Trichloroethane	50.0	50.9		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	57.6		ug/L		115	80 - 120
Trichloroethene	50.0	54.4		ug/L		109	80 - 120
Trichlorofluoromethane	50.0	49.0		ug/L		98	60 - 141
1,2,3-Trichloropropane	50.0	57.7		ug/L		115	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.8		ug/L		92	79 - 124

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCS 680-572037/5

Matrix: Water

Analysis Batch: 572037

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	50.0	51.4		ug/L		103	80 - 120
1,3,5-Trimethylbenzene	50.0	51.1		ug/L		102	80 - 120
Vinyl acetate	100	82.6		ug/L		83	67 - 135
Vinyl chloride	50.0	46.0		ug/L		92	71 - 128
Xylenes, Total	100	102		ug/L		102	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	104		80 - 122
1,2-Dichloroethane-d4 (Surr)	104		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 680-572037/6

Matrix: Water

Analysis Batch: 572037

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	294		ug/L		117	70 - 135	2	30
Acrylonitrile	500	549		ug/L		110	80 - 123	3	20
Benzene	50.0	50.5		ug/L		101	80 - 120	1	20
Bromobenzene	50.0	53.1		ug/L		106	80 - 121	0	20
Bromochloromethane	50.0	55.3		ug/L		111	80 - 120	0	20
Bromodichloromethane	50.0	54.8		ug/L		110	80 - 120	0	20
Bromoform	50.0	59.3		ug/L		119	74 - 126	0	20
Bromomethane	50.0	46.8		ug/L		94	62 - 130	8	20
2-Butanone (MEK)	250	322		ug/L		129	80 - 131	1	20
Carbon disulfide	50.0	46.7		ug/L		93	80 - 120	2	20
Carbon tetrachloride	50.0	50.2		ug/L		100	76 - 123	4	20
Chlorobenzene	50.0	51.3		ug/L		103	80 - 120	1	20
Chloroethane	50.0	48.8		ug/L		98	66 - 135	2	20
Chloroform	50.0	54.2		ug/L		108	80 - 120	1	20
Chloromethane	50.0	49.4		ug/L		99	69 - 131	0	30
2-Chlorotoluene	50.0	50.5		ug/L		101	80 - 120	2	20
4-Chlorotoluene	50.0	50.9		ug/L		102	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	49.3		ug/L		99	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	54.1		ug/L		108	80 - 120	1	20
Dibromochloromethane	50.0	59.9		ug/L		120	80 - 121	2	20
1,2-Dibromo-3-Chloropropane	50.0	59.0		ug/L		118	71 - 134	4	20
1,2-Dibromoethane	50.0	58.7		ug/L		117	80 - 120	2	20
Dibromomethane	50.0	56.0		ug/L		112	80 - 120	0	20
1,2-Dichlorobenzene	50.0	51.0		ug/L		102	80 - 120	3	20
1,3-Dichlorobenzene	50.0	48.3		ug/L		97	80 - 120	6	20
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120	3	20
Dichlorodifluoromethane	50.0	51.4		ug/L		103	47 - 155	1	40
1,1-Dichloroethane	50.0	51.1		ug/L		102	80 - 120	0	20
1,2-Dichloroethane	50.0	54.8		ug/L		110	80 - 120	1	50
1,1-Dichloroethene	50.0	48.9		ug/L		98	76 - 120	1	20
1,2-Dichloropropane	50.0	51.0		ug/L		102	80 - 120	1	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCSD 680-572037/6

Matrix: Water

Analysis Batch: 572037

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
1,3-Dichloropropane	50.0	56.3		ug/L		113	80 - 120	1	20
2,2-Dichloropropane	50.0	39.0		ug/L		78	76 - 126	4	20
1,1-Dichloropropene	50.0	49.8		ug/L		100	80 - 120	1	20
Ethylbenzene	50.0	49.5		ug/L		99	80 - 120	1	20
Hexachlorobutadiene	50.0	41.7		ug/L		83	60 - 140	5	20
2-Hexanone	250	299		ug/L		120	74 - 127	2	20
Iodomethane	50.0	49.3		ug/L		99	52 - 142	0	30
Isopropylbenzene	50.0	50.5		ug/L		101	80 - 120	2	20
Methylene Chloride	50.0	49.9		ug/L		100	80 - 120	1	20
4-Methyl-2-pentanone	250	294		ug/L		118	76 - 124	3	20
Methyl tert-butyl ether	50.0	55.3		ug/L		111	80 - 120	2	20
m-Xylene & p-Xylene	50.0	50.4		ug/L		101	80 - 120	1	20
Naphthalene	50.0	55.9		ug/L		112	59 - 140	5	20
n-Butylbenzene	50.0	45.4		ug/L		91	80 - 120	4	20
N-Propylbenzene	50.0	50.2		ug/L		100	80 - 120	1	20
o-Xylene	50.0	50.5		ug/L		101	80 - 120	1	30
p-Isopropyltoluene	50.0	46.9		ug/L		94	80 - 120	3	20
sec-Butylbenzene	50.0	49.5		ug/L		99	80 - 120	2	20
Styrene	50.0	51.6		ug/L		103	80 - 120	4	20
tert-Butylbenzene	50.0	50.5		ug/L		101	80 - 121	2	20
1,1,1,2-Tetrachloroethane	50.0	55.8		ug/L		112	80 - 121	2	20
1,1,2,2-Tetrachloroethane	50.0	53.4		ug/L		107	80 - 120	5	20
Tetrachloroethylene	50.0	52.4		ug/L		105	80 - 121	0	20
Toluene	50.0	52.0		ug/L		104	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	54.2		ug/L		108	68 - 125	3	30
trans-1,2-Dichloroethene	50.0	49.5		ug/L		99	80 - 120	0	20
trans-1,3-Dichloropropene	50.0	58.5		ug/L		117	80 - 120	1	30
1,2,3-Trichlorobenzene	50.0	50.9		ug/L		102	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	49.0		ug/L		98	68 - 128	0	20
1,1,1-Trichloroethane	50.0	50.0		ug/L		100	80 - 120	2	20
1,1,2-Trichloroethane	50.0	57.0		ug/L		114	80 - 120	1	20
Trichloroethene	50.0	54.3		ug/L		109	80 - 120	0	20
Trichlorofluoromethane	50.0	47.6		ug/L		95	60 - 141	3	20
1,2,3-Trichloropropane	50.0	59.9		ug/L		120	80 - 123	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.0		ug/L		94	79 - 124	3	20
1,2,4-Trimethylbenzene	50.0	50.5		ug/L		101	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	51.1		ug/L		102	80 - 120	0	20
Vinyl acetate	100	80.5		ug/L		81	67 - 135	3	20
Vinyl chloride	50.0	46.4		ug/L		93	71 - 128	1	20
Xylenes, Total	100	101		ug/L		101	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	107		80 - 122
1,2-Dichloroethane-d4 (Surr)	105		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: MB 680-572047/10

Matrix: Water

Analysis Batch: 572047

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/28/19 23:19	1
Acrylonitrile	10	U	20	10	ug/L			05/28/19 23:19	1
Benzene	0.43	U	1.0	0.43	ug/L			05/28/19 23:19	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/28/19 23:19	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/28/19 23:19	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/28/19 23:19	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/28/19 23:19	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/28/19 23:19	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/28/19 23:19	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/28/19 23:19	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/28/19 23:19	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/28/19 23:19	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/28/19 23:19	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/28/19 23:19	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/28/19 23:19	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/28/19 23:19	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/28/19 23:19	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/28/19 23:19	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/28/19 23:19	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/28/19 23:19	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/28/19 23:19	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/28/19 23:19	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/28/19 23:19	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/28/19 23:19	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/28/19 23:19	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/28/19 23:19	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/28/19 23:19	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/28/19 23:19	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/28/19 23:19	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/28/19 23:19	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/28/19 23:19	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/28/19 23:19	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/28/19 23:19	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/28/19 23:19	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/28/19 23:19	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/28/19 23:19	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/28/19 23:19	1
Iodomethane	5.0	U	10	5.0	ug/L			05/28/19 23:19	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/28/19 23:19	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/28/19 23:19	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/28/19 23:19	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/28/19 23:19	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/28/19 23:19	1
Naphthalene	4.64	J	5.0	2.5	ug/L			05/28/19 23:19	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/28/19 23:19	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/28/19 23:19	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/28/19 23:19	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/28/19 23:19	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: MB 680-572047/10

Matrix: Water

Analysis Batch: 572047

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/28/19 23:19	1
Styrene	0.27	U	1.0	0.27	ug/L			05/28/19 23:19	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/28/19 23:19	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/28/19 23:19	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/28/19 23:19	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/28/19 23:19	1
Toluene	0.48	U	1.0	0.48	ug/L			05/28/19 23:19	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/28/19 23:19	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/28/19 23:19	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/28/19 23:19	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/28/19 23:19	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/28/19 23:19	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/28/19 23:19	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/28/19 23:19	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/28/19 23:19	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/28/19 23:19	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/28/19 23:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/28/19 23:19	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/28/19 23:19	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/28/19 23:19	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/28/19 23:19	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/28/19 23:19	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/28/19 23:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		80 - 120		05/28/19 23:19	1
Dibromofluoromethane (Surr)	109		80 - 122		05/28/19 23:19	1
1,2-Dichloroethane-d4 (Surr)	116		73 - 131		05/28/19 23:19	1
Toluene-d8 (Surr)	101		80 - 120		05/28/19 23:19	1

Lab Sample ID: LCS 680-572047/5

Matrix: Water

Analysis Batch: 572047

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	194		ug/L		77	70 - 135
Acrylonitrile	500	427		ug/L		85	80 - 123
Benzene	50.0	46.2		ug/L		92	80 - 120
Bromobenzene	50.0	59.9		ug/L		120	80 - 121
Bromochloromethane	50.0	56.3		ug/L		113	80 - 120
Bromodichloromethane	50.0	56.7		ug/L		113	80 - 120
Bromoform	50.0	67.0	*	ug/L		134	74 - 126
Bromomethane	50.0	27.8	*	ug/L		56	62 - 130
2-Butanone (MEK)	250	234		ug/L		94	80 - 131
Carbon disulfide	50.0	42.7		ug/L		85	80 - 120
Carbon tetrachloride	50.0	61.0		ug/L		122	76 - 123
Chlorobenzene	50.0	52.3		ug/L		105	80 - 120
Chloroethane	50.0	34.6		ug/L		69	66 - 135

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCS 680-572047/5

Matrix: Water

Analysis Batch: 572047

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	54.5		ug/L		109	80 - 120
Chloromethane	50.0	34.5		ug/L		69	69 - 131
2-Chlorotoluene	50.0	52.8		ug/L		106	80 - 120
4-Chlorotoluene	50.0	54.2		ug/L		108	80 - 120
cis-1,2-Dichloroethene	50.0	45.5		ug/L		91	80 - 120
cis-1,3-Dichloropropene	50.0	50.3		ug/L		101	80 - 120
Dibromochloromethane	50.0	62.7	*	ug/L		125	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	52.9		ug/L		106	71 - 134
1,2-Dibromoethane	50.0	56.2		ug/L		112	80 - 120
Dibromomethane	50.0	53.2		ug/L		106	80 - 120
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	80 - 120
1,3-Dichlorobenzene	50.0	48.2		ug/L		96	80 - 120
1,4-Dichlorobenzene	50.0	46.4		ug/L		93	80 - 120
Dichlorodifluoromethane	50.0	53.9		ug/L		108	47 - 155
1,1-Dichloroethane	50.0	46.9		ug/L		94	80 - 120
1,2-Dichloroethane	50.0	60.4	*	ug/L		121	80 - 120
1,1-Dichloroethene	50.0	46.1		ug/L		92	76 - 120
1,2-Dichloropropane	50.0	45.4		ug/L		91	80 - 120
1,3-Dichloropropane	50.0	52.2		ug/L		104	80 - 120
2,2-Dichloropropane	50.0	46.2		ug/L		92	76 - 126
1,1-Dichloropropene	50.0	48.7		ug/L		97	80 - 120
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120
Hexachlorobutadiene	50.0	63.2		ug/L		126	60 - 140
2-Hexanone	250	228		ug/L		91	74 - 127
Iodomethane	50.0	26.5		ug/L		53	52 - 142
Isopropylbenzene	50.0	52.7		ug/L		105	80 - 120
Methylene Chloride	50.0	44.4		ug/L		89	80 - 120
4-Methyl-2-pentanone	250	226		ug/L		90	76 - 124
Methyl tert-butyl ether	50.0	53.0		ug/L		106	80 - 120
m-Xylene & p-Xylene	50.0	51.1		ug/L		102	80 - 120
Naphthalene	50.0	63.8		ug/L		128	59 - 140
n-Butylbenzene	50.0	43.6		ug/L		87	80 - 120
N-Propylbenzene	50.0	51.2		ug/L		102	80 - 120
o-Xylene	50.0	51.7		ug/L		103	80 - 120
p-Isopropyltoluene	50.0	46.8		ug/L		94	80 - 120
sec-Butylbenzene	50.0	54.0		ug/L		108	80 - 120
Styrene	50.0	53.1		ug/L		106	80 - 120
tert-Butylbenzene	50.0	56.2		ug/L		112	80 - 121
1,1,1,2-Tetrachloroethane	50.0	58.3		ug/L		117	80 - 121
1,1,2,2-Tetrachloroethane	50.0	48.7		ug/L		97	80 - 120
Tetrachloroethylene	50.0	61.4	*	ug/L		123	80 - 121
Toluene	50.0	50.5		ug/L		101	80 - 113
trans-1,4-Dichloro-2-butene	50.0	51.8		ug/L		104	68 - 125
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	80 - 120
trans-1,3-Dichloropropene	50.0	54.9		ug/L		110	80 - 120
1,2,3-Trichlorobenzene	50.0	58.9		ug/L		118	61 - 141
1,2,4-Trichlorobenzene	50.0	57.0		ug/L		114	68 - 128
1,1,1-Trichloroethane	50.0	57.5		ug/L		115	80 - 120
1,1,2-Trichloroethane	50.0	50.5		ug/L		101	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCS 680-572047/5

Matrix: Water

Analysis Batch: 572047

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	57.2		ug/L		114	80 - 120
Trichlorofluoromethane	50.0	54.8		ug/L		110	60 - 141
1,2,3-Trichloropropane	50.0	59.0		ug/L		118	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.9		ug/L		110	79 - 124
1,2,4-Trimethylbenzene	50.0	56.7		ug/L		113	80 - 120
1,3,5-Trimethylbenzene	50.0	56.0		ug/L		112	80 - 120
Vinyl acetate	100	86.4		ug/L		86	67 - 135
Vinyl chloride	50.0	39.6		ug/L		79	71 - 128
Xylenes, Total	100	103		ug/L		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		80 - 120
Dibromofluoromethane (Surr)	112		80 - 122
1,2-Dichloroethane-d4 (Surr)	121		73 - 131
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: LCSD 680-572047/6

Matrix: Water

Analysis Batch: 572047

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	195		ug/L		78	70 - 135	1	30
Acrylonitrile	500	410		ug/L		82	80 - 123	4	20
Benzene	50.0	45.6		ug/L		91	80 - 120	1	20
Bromobenzene	50.0	59.8		ug/L		120	80 - 121	0	20
Bromochloromethane	50.0	54.4		ug/L		109	80 - 120	3	20
Bromodichloromethane	50.0	56.0		ug/L		112	80 - 120	1	20
Bromoform	50.0	65.2	*	ug/L		130	74 - 126	3	20
Bromomethane	50.1	28.7	*	ug/L		57	62 - 130	3	20
2-Butanone (MEK)	250	226		ug/L		90	80 - 131	4	20
Carbon disulfide	50.0	42.7		ug/L		85	80 - 120	0	20
Carbon tetrachloride	50.0	61.4		ug/L		123	76 - 123	1	20
Chlorobenzene	50.0	52.3		ug/L		105	80 - 120	0	20
Chloroethane	50.0	34.7		ug/L		69	66 - 135	0	20
Chloroform	50.0	52.1		ug/L		104	80 - 120	5	20
Chloromethane	50.0	34.0	*	ug/L		68	69 - 131	1	30
2-Chlorotoluene	50.0	52.8		ug/L		106	80 - 120	0	20
4-Chlorotoluene	50.0	53.9		ug/L		108	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	45.3		ug/L		91	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	49.6		ug/L		99	80 - 120	1	20
Dibromochloromethane	50.0	61.2	*	ug/L		122	80 - 121	2	20
1,2-Dibromo-3-Chloropropane	50.0	52.8		ug/L		106	71 - 134	0	20
1,2-Dibromoethane	50.0	55.5		ug/L		111	80 - 120	1	20
Dibromomethane	50.0	52.8		ug/L		106	80 - 120	1	20
1,2-Dichlorobenzene	50.0	48.9		ug/L		98	80 - 120	1	20
1,3-Dichlorobenzene	50.0	48.2		ug/L		96	80 - 120	0	20
1,4-Dichlorobenzene	50.0	47.6		ug/L		95	80 - 120	3	20
Dichlorodifluoromethane	50.1	55.0		ug/L		110	47 - 155	2	40

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCSD 680-572047/6

Matrix: Water

Analysis Batch: 572047

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	46.2		ug/L		92	80 - 120	2	20
1,2-Dichloroethane	50.0	58.5		ug/L		117	80 - 120	3	50
1,1-Dichloroethene	50.0	46.1		ug/L		92	76 - 120	0	20
1,2-Dichloropropane	50.0	45.2		ug/L		90	80 - 120	0	20
1,3-Dichloropropane	50.0	51.4		ug/L		103	80 - 120	2	20
2,2-Dichloropropane	50.0	45.2		ug/L		90	76 - 126	2	20
1,1-Dichloropropene	50.0	48.8		ug/L		98	80 - 120	0	20
Ethylbenzene	50.0	50.2		ug/L		100	80 - 120	1	20
Hexachlorobutadiene	50.0	64.3		ug/L		129	60 - 140	2	20
2-Hexanone	250	227		ug/L		91	74 - 127	1	20
Iodomethane	50.0	28.8		ug/L		58	52 - 142	8	30
Isopropylbenzene	50.0	53.0		ug/L		106	80 - 120	1	20
Methylene Chloride	50.0	43.7		ug/L		87	80 - 120	1	20
4-Methyl-2-pentanone	250	221		ug/L		88	76 - 124	2	20
Methyl tert-butyl ether	50.0	51.0		ug/L		102	80 - 120	4	20
m-Xylene & p-Xylene	50.0	51.7		ug/L		103	80 - 120	1	20
Naphthalene	50.0	60.6		ug/L		121	59 - 140	5	20
n-Butylbenzene	50.0	45.1		ug/L		90	80 - 120	3	20
N-Propylbenzene	50.0	52.5		ug/L		105	80 - 120	3	20
o-Xylene	50.0	51.7		ug/L		103	80 - 120	0	30
p-Isopropyltoluene	50.0	48.2		ug/L		96	80 - 120	3	20
sec-Butylbenzene	50.0	54.4		ug/L		109	80 - 120	1	20
Styrene	50.0	53.1		ug/L		106	80 - 120	0	20
tert-Butylbenzene	50.0	56.6		ug/L		113	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	57.6		ug/L		115	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/L		99	80 - 120	2	20
Tetrachloroethylene	50.0	61.1	*	ug/L		122	80 - 121	0	20
Toluene	50.0	49.8		ug/L		100	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	51.0		ug/L		102	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	53.8		ug/L		108	80 - 120	2	30
1,2,3-Trichlorobenzene	50.0	58.3		ug/L		117	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	56.7		ug/L		113	68 - 128	1	20
1,1,1-Trichloroethane	50.0	56.4		ug/L		113	80 - 120	2	20
1,1,2-Trichloroethane	50.0	50.9		ug/L		102	80 - 120	1	20
Trichloroethene	50.0	56.8		ug/L		114	80 - 120	1	20
Trichlorofluoromethane	50.0	55.4		ug/L		111	60 - 141	1	20
1,2,3-Trichloropropane	50.0	58.1		ug/L		116	80 - 123	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.3		ug/L		113	79 - 124	3	20
1,2,4-Trimethylbenzene	50.0	56.8		ug/L		114	80 - 120	0	20
1,3,5-Trimethylbenzene	50.0	56.2		ug/L		112	80 - 120	0	20
Vinyl acetate	100	82.7		ug/L		83	67 - 135	4	20
Vinyl chloride	50.1	39.4		ug/L		79	71 - 128	1	20
Xylenes, Total	100	103		ug/L		103	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCSD 680-572047/6

Matrix: Water

Analysis Batch: 572047

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	109		80 - 122
1,2-Dichloroethane-d4 (Surr)	116		73 - 131
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: MB 680-572112/9

Matrix: Water

Analysis Batch: 572112

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			05/29/19 11:12	1
Acrylonitrile	10	U	20	10	ug/L			05/29/19 11:12	1
Benzene	0.43	U	1.0	0.43	ug/L			05/29/19 11:12	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			05/29/19 11:12	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			05/29/19 11:12	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			05/29/19 11:12	1
Bromoform	0.43	U	1.0	0.43	ug/L			05/29/19 11:12	1
Bromomethane	2.5	U	5.0	2.5	ug/L			05/29/19 11:12	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			05/29/19 11:12	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			05/29/19 11:12	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			05/29/19 11:12	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			05/29/19 11:12	1
Chloroethane	2.5	U	5.0	2.5	ug/L			05/29/19 11:12	1
Chloroform	0.50	U	1.0	0.50	ug/L			05/29/19 11:12	1
Chloromethane	0.40	U	1.0	0.40	ug/L			05/29/19 11:12	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			05/29/19 11:12	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			05/29/19 11:12	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			05/29/19 11:12	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			05/29/19 11:12	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			05/29/19 11:12	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			05/29/19 11:12	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			05/29/19 11:12	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			05/29/19 11:12	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			05/29/19 11:12	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			05/29/19 11:12	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			05/29/19 11:12	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			05/29/19 11:12	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			05/29/19 11:12	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			05/29/19 11:12	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			05/29/19 11:12	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			05/29/19 11:12	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			05/29/19 11:12	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			05/29/19 11:12	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			05/29/19 11:12	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			05/29/19 11:12	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			05/29/19 11:12	1
2-Hexanone	2.0	U	10	2.0	ug/L			05/29/19 11:12	1
Iodomethane	5.0	U	10	5.0	ug/L			05/29/19 11:12	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			05/29/19 11:12	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: MB 680-572112/9

Matrix: Water

Analysis Batch: 572112

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.5	U	5.0	2.5	ug/L			05/29/19 11:12	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			05/29/19 11:12	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			05/29/19 11:12	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			05/29/19 11:12	1
Naphthalene	2.5	U	5.0	2.5	ug/L			05/29/19 11:12	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			05/29/19 11:12	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			05/29/19 11:12	1
o-Xylene	0.23	U	1.0	0.23	ug/L			05/29/19 11:12	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			05/29/19 11:12	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			05/29/19 11:12	1
Styrene	0.27	U	1.0	0.27	ug/L			05/29/19 11:12	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			05/29/19 11:12	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			05/29/19 11:12	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			05/29/19 11:12	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			05/29/19 11:12	1
Toluene	0.48	U	1.0	0.48	ug/L			05/29/19 11:12	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			05/29/19 11:12	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			05/29/19 11:12	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			05/29/19 11:12	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/29/19 11:12	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			05/29/19 11:12	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			05/29/19 11:12	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			05/29/19 11:12	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			05/29/19 11:12	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			05/29/19 11:12	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			05/29/19 11:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.36	U	1.0	0.36	ug/L			05/29/19 11:12	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			05/29/19 11:12	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			05/29/19 11:12	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			05/29/19 11:12	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			05/29/19 11:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			05/29/19 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		05/29/19 11:12	1
Dibromofluoromethane (Surr)	110		80 - 122		05/29/19 11:12	1
1,2-Dichloroethane-d4 (Surr)	96		73 - 131		05/29/19 11:12	1
Toluene-d8 (Surr)	100		80 - 120		05/29/19 11:12	1

Lab Sample ID: LCS 680-572112/3

Matrix: Water

Analysis Batch: 572112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	242		ug/L		97	70 - 135
Acrylonitrile	500	519		ug/L		104	80 - 123
Benzene	50.0	50.7		ug/L		101	80 - 120
Bromobenzene	50.0	51.5		ug/L		103	80 - 121

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCS 680-572112/3

Matrix: Water

Analysis Batch: 572112

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	49.4		ug/L		99	80 - 120
Bromodichloromethane	50.0	54.3		ug/L		109	80 - 120
Bromoform	50.0	57.5		ug/L		115	74 - 126
Bromomethane	50.1	54.1		ug/L		108	62 - 130
2-Butanone (MEK)	250	259		ug/L		104	80 - 131
Carbon disulfide	50.0	53.1		ug/L		106	80 - 120
Carbon tetrachloride	50.0	60.4		ug/L		121	76 - 123
Chlorobenzene	50.0	52.1		ug/L		104	80 - 120
Chloroethane	50.0	53.1		ug/L		106	66 - 135
Chloroform	50.0	50.8		ug/L		102	80 - 120
Chloromethane	50.0	53.7		ug/L		107	69 - 131
2-Chlorotoluene	50.0	51.3		ug/L		103	80 - 120
4-Chlorotoluene	50.0	51.2		ug/L		102	80 - 120
cis-1,2-Dichloroethene	50.0	51.1		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	53.5		ug/L		107	80 - 120
Dibromochloromethane	50.0	54.2		ug/L		108	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	55.0		ug/L		110	71 - 134
1,2-Dibromoethane	50.0	51.3		ug/L		103	80 - 120
Dibromomethane	50.0	51.5		ug/L		103	80 - 120
1,2-Dichlorobenzene	50.0	53.2		ug/L		106	80 - 120
1,3-Dichlorobenzene	50.0	52.9		ug/L		106	80 - 120
1,4-Dichlorobenzene	50.0	52.9		ug/L		106	80 - 120
Dichlorodifluoromethane	50.1	56.9		ug/L		114	47 - 155
1,1-Dichloroethane	50.0	51.3		ug/L		103	80 - 120
1,2-Dichloroethane	50.0	50.7		ug/L		101	80 - 120
1,1-Dichloroethene	50.0	51.5		ug/L		103	76 - 120
1,2-Dichloropropane	50.0	51.4		ug/L		103	80 - 120
1,3-Dichloropropane	50.0	50.9		ug/L		102	80 - 120
2,2-Dichloropropane	50.0	56.4		ug/L		113	76 - 126
1,1-Dichloropropene	50.0	53.4		ug/L		107	80 - 120
Ethylbenzene	50.0	51.9		ug/L		104	80 - 120
Hexachlorobutadiene	50.0	56.8		ug/L		114	60 - 140
2-Hexanone	250	257		ug/L		103	74 - 127
Iodomethane	50.0	50.3		ug/L		101	52 - 142
Isopropylbenzene	50.0	52.7		ug/L		105	80 - 120
Methylene Chloride	50.0	49.2		ug/L		98	80 - 120
4-Methyl-2-pentanone	250	261		ug/L		105	76 - 124
Methyl tert-butyl ether	50.0	51.3		ug/L		103	80 - 120
m-Xylene & p-Xylene	50.0	51.7		ug/L		103	80 - 120
Naphthalene	50.0	50.7		ug/L		101	59 - 140
n-Butylbenzene	50.0	57.0		ug/L		114	80 - 120
N-Propylbenzene	50.0	53.6		ug/L		107	80 - 120
o-Xylene	50.0	52.5		ug/L		105	80 - 120
p-Isopropyltoluene	50.0	54.5		ug/L		109	80 - 120
sec-Butylbenzene	50.0	53.8		ug/L		108	80 - 120
Styrene	50.0	52.4		ug/L		105	80 - 120
tert-Butylbenzene	50.0	52.4		ug/L		105	80 - 121
1,1,1,2-Tetrachloroethane	50.0	54.6		ug/L		109	80 - 121
1,1,2,2-Tetrachloroethane	50.0	52.5		ug/L		105	80 - 120

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCS 680-572112/3

Matrix: Water

Analysis Batch: 572112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethylene	50.0	53.4		ug/L		107	80 - 121
Toluene	50.0	52.0		ug/L		104	80 - 113
trans-1,4-Dichloro-2-butene	50.0	55.2		ug/L		110	68 - 125
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	80 - 120
trans-1,3-Dichloropropene	50.0	53.0		ug/L		106	80 - 120
1,2,3-Trichlorobenzene	50.0	48.5		ug/L		97	61 - 141
1,2,4-Trichlorobenzene	50.0	53.2		ug/L		106	68 - 128
1,1,1-Trichloroethane	50.0	52.9		ug/L		106	80 - 120
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	80 - 120
Trichloroethene	50.0	51.6		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	55.0		ug/L		110	60 - 141
1,2,3-Trichloropropane	50.0	49.4		ug/L		99	80 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.5		ug/L		111	79 - 124
1,2,4-Trimethylbenzene	50.0	52.1		ug/L		104	80 - 120
1,3,5-Trimethylbenzene	50.0	52.1		ug/L		104	80 - 120
Vinyl acetate	100	119		ug/L		119	67 - 135
Vinyl chloride	50.1	54.6		ug/L		109	71 - 128
Xylenes, Total	100	104		ug/L		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	98		73 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 680-572112/4

Matrix: Water

Analysis Batch: 572112

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	226		ug/L		90	70 - 135	7	30
Acrylonitrile	500	482		ug/L		96	80 - 123	7	20
Benzene	50.0	50.1		ug/L		100	80 - 120	1	20
Bromobenzene	50.0	50.8		ug/L		102	80 - 121	1	20
Bromochloromethane	50.0	47.4		ug/L		95	80 - 120	4	20
Bromodichloromethane	50.0	53.1		ug/L		106	80 - 120	2	20
Bromoform	50.0	55.1		ug/L		110	74 - 126	4	20
Bromomethane	50.1	52.5		ug/L		105	62 - 130	3	20
2-Butanone (MEK)	250	239		ug/L		96	80 - 131	8	20
Carbon disulfide	50.0	53.4		ug/L		107	80 - 120	0	20
Carbon tetrachloride	50.0	57.7		ug/L		115	76 - 123	4	20
Chlorobenzene	50.0	51.5		ug/L		103	80 - 120	1	20
Chloroethane	50.0	53.2		ug/L		106	66 - 135	0	20
Chloroform	50.0	49.9		ug/L		100	80 - 120	2	20
Chloromethane	50.0	54.8		ug/L		110	69 - 131	2	30
2-Chlorotoluene	50.0	51.3		ug/L		103	80 - 120	0	20
4-Chlorotoluene	50.0	51.6		ug/L		103	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120	1	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCSD 680-572112/4

Matrix: Water

Analysis Batch: 572112

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
cis-1,3-Dichloropropene	50.0	51.5		ug/L		103	80 - 120	4	20
Dibromochloromethane	50.0	51.7		ug/L		103	80 - 121	5	20
1,2-Dibromo-3-Chloropropane	50.0	52.2		ug/L		104	71 - 134	5	20
1,2-Dibromoethane	50.0	48.9		ug/L		98	80 - 120	5	20
Dibromomethane	50.0	48.9		ug/L		98	80 - 120	5	20
1,2-Dichlorobenzene	50.0	52.9		ug/L		106	80 - 120	1	20
1,3-Dichlorobenzene	50.0	52.4		ug/L		105	80 - 120	1	20
1,4-Dichlorobenzene	50.0	52.4		ug/L		105	80 - 120	1	20
Dichlorodifluoromethane	50.1	56.5		ug/L		113	47 - 155	1	40
1,1-Dichloroethane	50.0	51.1		ug/L		102	80 - 120	0	20
1,2-Dichloroethane	50.0	48.0		ug/L		96	80 - 120	5	50
1,1-Dichloroethene	50.0	51.9		ug/L		104	76 - 120	1	20
1,2-Dichloropropane	50.0	49.7		ug/L		99	80 - 120	3	20
1,3-Dichloropropane	50.0	48.4		ug/L		97	80 - 120	5	20
2,2-Dichloropropane	50.0	56.1		ug/L		112	76 - 126	0	20
1,1-Dichloropropene	50.0	53.0		ug/L		106	80 - 120	1	20
Ethylbenzene	50.0	52.4		ug/L		105	80 - 120	1	20
Hexachlorobutadiene	50.0	57.1		ug/L		114	60 - 140	1	20
2-Hexanone	250	243		ug/L		97	74 - 127	6	20
Iodomethane	50.0	53.8		ug/L		108	52 - 142	7	30
Isopropylbenzene	50.0	53.0		ug/L		106	80 - 120	1	20
Methylene Chloride	50.0	48.8		ug/L		98	80 - 120	1	20
4-Methyl-2-pentanone	250	244		ug/L		98	76 - 124	7	20
Methyl tert-butyl ether	50.0	49.3		ug/L		99	80 - 120	4	20
m-Xylene & p-Xylene	50.0	53.1		ug/L		106	80 - 120	3	20
Naphthalene	50.0	50.1		ug/L		100	59 - 140	1	20
n-Butylbenzene	50.0	57.5		ug/L		115	80 - 120	1	20
N-Propylbenzene	50.0	53.3		ug/L		107	80 - 120	1	20
o-Xylene	50.0	51.7		ug/L		103	80 - 120	1	30
p-Isopropyltoluene	50.0	54.8		ug/L		110	80 - 120	1	20
sec-Butylbenzene	50.0	54.3		ug/L		109	80 - 120	1	20
Styrene	50.0	52.1		ug/L		104	80 - 120	0	20
tert-Butylbenzene	50.0	52.7		ug/L		105	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	52.8		ug/L		106	80 - 121	3	20
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	80 - 120	4	20
Tetrachloroethylene	50.0	52.7		ug/L		105	80 - 121	1	20
Toluene	50.0	51.5		ug/L		103	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	53.0		ug/L		106	68 - 125	4	30
trans-1,2-Dichloroethene	50.0	52.7		ug/L		105	80 - 120	0	20
trans-1,3-Dichloropropene	50.0	50.5		ug/L		101	80 - 120	5	30
1,2,3-Trichlorobenzene	50.0	50.9		ug/L		102	61 - 141	5	20
1,2,4-Trichlorobenzene	50.0	52.9		ug/L		106	68 - 128	1	20
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	80 - 120	0	20
1,1,2-Trichloroethane	50.0	49.8		ug/L		100	80 - 120	2	20
Trichloroethene	50.0	52.0		ug/L		104	80 - 120	1	20
Trichlorofluoromethane	50.0	54.6		ug/L		109	60 - 141	1	20
1,2,3-Trichloropropane	50.0	48.2		ug/L		96	80 - 123	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.3		ug/L		111	79 - 124	0	20

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

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

Lab Sample ID: LCSD 680-572112/4

Matrix: Water

Analysis Batch: 572112

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
1,2,4-Trimethylbenzene	50.0	52.1		ug/L		104	80 - 120	0	20
1,3,5-Trimethylbenzene	50.0	52.3		ug/L		105	80 - 120	0	20
Vinyl acetate	100	110		ug/L		110	67 - 135	7	20
Vinyl chloride	50.1	55.0		ug/L		110	71 - 128	1	20
Xylenes, Total	100	105		ug/L		105	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	98		80 - 122
1,2-Dichloroethane-d4 (Surr)	94		73 - 131
Toluene-d8 (Surr)	100		80 - 120

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-571865/44

Matrix: Water

Analysis Batch: 571865

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			05/25/19 22:07	1

Lab Sample ID: LCS 680-571865/45

Matrix: Water

Analysis Batch: 571865

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	11.2		mg/L		112	87 - 112

Lab Sample ID: LCSD 680-571865/46

Matrix: Water

Analysis Batch: 571865

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	11.7	*	mg/L		117	87 - 112	4	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-572002/1-A

Matrix: Water

Analysis Batch: 572170

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 572002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Sodium	480	U	1000	480	ug/L		05/28/19 12:39	05/29/19 04:18	1

Lab Sample ID: LCS 680-572002/2-A

Matrix: Water

Analysis Batch: 572170

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 572002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Sodium	5000	4600		ug/L		92	80 - 120

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QC Sample Results

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Method: 6010C - Metals (ICP)

Lab Sample ID: LCSD 680-572002/3-A
Matrix: Water
Analysis Batch: 572170

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 572002

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Sodium	5000	4320		ug/L		86	80 - 120	6	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-571777/2
Matrix: Water
Analysis Batch: 571777

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			05/23/19 22:19	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			05/23/19 22:19	1

Lab Sample ID: LCS 680-571777/3
Matrix: Water
Analysis Batch: 571777

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	19.5		mg/L		97	80 - 120
Total Organic Carbon - Quad	20.0	19.5		mg/L		97	80 - 120
TOC Result 1	20.0	19.4		mg/L		97	80 - 120
TOC Result 2	20.0	19.2		mg/L		96	80 - 120
TOC Result 3	20.0	19.8		mg/L		99	80 - 120
TOC Result 4	20.0	19.6		mg/L		98	80 - 120

Lab Sample ID: LCSD 680-571777/4
Matrix: Water
Analysis Batch: 571777

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.5		mg/L		98	80 - 120	0	25
Total Organic Carbon - Quad	20.0	19.5		mg/L		98	80 - 120	0	25
TOC Result 1	20.0	19.1		mg/L		96	80 - 120	1	25
TOC Result 2	20.0	19.3		mg/L		97	80 - 120	1	25
TOC Result 3	20.0	19.8		mg/L		99	80 - 120	0	25
TOC Result 4	20.0	19.8		mg/L		99	80 - 120	1	25

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

GC/MS VOA

Analysis Batch: 571700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-169087-2	OLF-G75 Screen 2	Total/NA	Water	8260B	
680-169087-3	OLF-G75 Screen 3	Total/NA	Water	8260B	
680-169087-9	OLF-G42	Total/NA	Water	8260B	
680-169087-11	DUP# 319	Total/NA	Water	8260B	
MB 680-571700/9	Method Blank	Total/NA	Water	8260B	
LCS 680-571700/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-571700/5	Lab Control Sample Dup	Total/NA	Water	8260B	
680-169087-9 MS	OLF-G42	Total/NA	Water	8260B	
680-169087-9 MSD	OLF-G42	Total/NA	Water	8260B	

Analysis Batch: 571803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-169087-1	OLF-G75 Screen 1	Total/NA	Water	8260B	
MB 680-571803/9	Method Blank	Total/NA	Water	8260B	
LCS 680-571803/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-571803/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 571989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-169087-12	EB128	Total/NA	Water	8260B	
680-169087-14	TB532	Total/NA	Water	8260B	
MB 680-571989/20	Method Blank	Total/NA	Water	8260B	
LCS 680-571989/16	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-571989/17	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 572037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-169087-10	PPMP-229-GP12	Total/NA	Water	8260B	
MB 680-572037/10	Method Blank	Total/NA	Water	8260B	
LCS 680-572037/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-572037/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 572047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-169087-4	OLF-G75 Screen 4	Total/NA	Water	8260B	
680-169087-5	OLF-G75 Screen 5	Total/NA	Water	8260B	
680-169087-6	OLF-G75 Screen 6	Total/NA	Water	8260B	
680-169087-7	OLF-G70	Total/NA	Water	8260B	
680-169087-8	OLF-G32	Total/NA	Water	8260B	
680-169087-15	OLF-G31	Total/NA	Water	8260B	
MB 680-572047/10	Method Blank	Total/NA	Water	8260B	
LCS 680-572047/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-572047/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 572112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-169087-13	MB098	Total/NA	Water	8260B	
MB 680-572112/9	Method Blank	Total/NA	Water	8260B	
LCS 680-572112/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-572112/4	Lab Control Sample Dup	Total/NA	Water	8260B	

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QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

HPLC/IC

Analysis Batch: 571865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-169087-12	EB128	Total/NA	Water	9056A	
680-169087-13	MB098	Total/NA	Water	9056A	
MB 680-571865/44	Method Blank	Total/NA	Water	9056A	
LCS 680-571865/45	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-571865/46	Lab Control Sample Dup	Total/NA	Water	9056A	

Metals

Filtration Batch: 572000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-169087-12	EB128	Dissolved	Water	FILTRATION	
680-169087-13	MB098	Dissolved	Water	FILTRATION	

Prep Batch: 572002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-169087-12	EB128	Dissolved	Water	3005A	572000
680-169087-13	MB098	Dissolved	Water	3005A	572000
MB 680-572002/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-572002/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 680-572002/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 572170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-169087-12	EB128	Dissolved	Water	6010C	572002
680-169087-13	MB098	Dissolved	Water	6010C	572002
MB 680-572002/1-A	Method Blank	Total Recoverable	Water	6010C	572002
LCS 680-572002/2-A	Lab Control Sample	Total Recoverable	Water	6010C	572002
LCSD 680-572002/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010C	572002

General Chemistry

Analysis Batch: 571777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-169087-12	EB128	Total/NA	Water	9060A	
680-169087-13	MB098	Total/NA	Water	9060A	
MB 680-571777/2	Method Blank	Total/NA	Water	9060A	
LCS 680-571777/3	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-571777/4	Lab Control Sample Dup	Total/NA	Water	9060A	

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G75 Screen 1

Lab Sample ID: 680-169087-1

Date Collected: 05/13/19 10:11

Matrix: Water

Date Received: 05/16/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571803	05/25/19 16:12	Y1S	TAL SAV
Instrument ID: CMSP2										

Client Sample ID: OLF-G75 Screen 2

Lab Sample ID: 680-169087-2

Date Collected: 05/13/19 11:56

Matrix: Water

Date Received: 05/16/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571700	05/24/19 18:45	SMP	TAL SAV
Instrument ID: CMSP2										

Client Sample ID: OLF-G75 Screen 3

Lab Sample ID: 680-169087-3

Date Collected: 05/13/19 14:11

Matrix: Water

Date Received: 05/16/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571700	05/24/19 18:21	SMP	TAL SAV
Instrument ID: CMSP2										

Client Sample ID: OLF-G75 Screen 4

Lab Sample ID: 680-169087-4

Date Collected: 05/14/19 12:56

Matrix: Water

Date Received: 05/16/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	572047	05/29/19 02:08	UI	TAL SAV
Instrument ID: CMSC										

Client Sample ID: OLF-G75 Screen 5

Lab Sample ID: 680-169087-5

Date Collected: 05/14/19 14:01

Matrix: Water

Date Received: 05/16/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	572047	05/29/19 02:29	UI	TAL SAV
Instrument ID: CMSC										

Client Sample ID: OLF-G75 Screen 6

Lab Sample ID: 680-169087-6

Date Collected: 05/14/19 15:11

Matrix: Water

Date Received: 05/16/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	572047	05/29/19 02:50	UI	TAL SAV
Instrument ID: CMSC										

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Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: OLF-G70

Date Collected: 05/15/19 10:16

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	572047	05/29/19 05:39	UI	TAL SAV
Instrument ID: CMSC										

Client Sample ID: OLF-G32

Date Collected: 05/14/19 15:56

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	572047	05/29/19 03:11	UI	TAL SAV
Instrument ID: CMSC										

Client Sample ID: OLF-G42

Date Collected: 05/13/19 15:41

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571700	05/24/19 17:58	SMP	TAL SAV
Instrument ID: CMSP2										

Client Sample ID: PPMP-229-GP12

Date Collected: 05/14/19 12:31

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	572037	05/29/19 00:19	SMP	TAL SAV
Instrument ID: CMSP2										

Client Sample ID: DUP# 319

Date Collected: 05/13/19 00:00

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	571700	05/24/19 17:35	SMP	TAL SAV
Instrument ID: CMSP2										

Client Sample ID: EB128

Date Collected: 05/15/19 12:15

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	571989	05/28/19 21:10	Y1S	TAL SAV
Instrument ID: CMSAA										
Total/NA	Analysis	9056A		1	5 mL	5 mL	571865	05/26/19 01:04	UI	TAL SAV
Instrument ID: CICK										

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Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Client Sample ID: EB128

Date Collected: 05/15/19 12:15

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	572000	05/28/19 12:37	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	572002	05/28/19 12:39	AJR	TAL SAV
Dissolved	Analysis	6010C		1			572170	05/29/19 04:47	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	571777	05/24/19 01:22	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: MB098

Date Collected: 05/15/19 12:00

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	572112	05/29/19 18:32	Y1S	TAL SAV
		Instrument ID: CMSA2								
Total/NA	Analysis	9056A		1	5 mL	5 mL	571865	05/26/19 01:17	UI	TAL SAV
		Instrument ID: CICK								
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	572000	05/28/19 12:37	AJR	TAL SAV
Dissolved	Prep	3005A			50 mL	50 mL	572002	05/28/19 12:39	AJR	TAL SAV
Dissolved	Analysis	6010C		1			572170	05/29/19 04:33	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Analysis	9060A		1	40 mL	40 mL	571777	05/24/19 01:37	KDM	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: TB532

Date Collected: 05/15/19 12:30

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	571989	05/28/19 21:34	Y1S	TAL SAV
		Instrument ID: CMSAA								

Client Sample ID: OLF-G31

Date Collected: 05/15/19 11:56

Date Received: 05/16/19 09:00

Lab Sample ID: 680-169087-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	572047	05/29/19 05:17	UI	TAL SAV
		Instrument ID: CMSC								

Laboratory References:

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

Eurofins TestAmerica, Savannah

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Laboratory: Eurofins TestAmerica, Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87052	06-30-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Savannah

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 80(6), Landfill 3

Job ID: 680-169087-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
9056A	Anions, Ion Chromatography	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
9060A	Organic Carbon, Total (TOC)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
FILTRATION	Sample Filtration	None	TAL SAV

Protocol References:

None = None

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

Laboratory References:

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

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

Laboratory TestAmerica
 Lab Contact Jon Lawhon; Amy Ragnaldsen
 MES Contact Betty Van Pelt
 MES Phone 801-699-1246
 Project Parcel 80(6), Landfill 3
 Task # 18.094.19-05.2.500
 Lab contract:

Cooler ID 5777
 Page 1 of 1

Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis					
							SW9056A Sulfate 1 - 125ml poly, none	SW6010C Sodium (dissolved, lab filtered) 1-250 ml poly, none	SW8260B - VOC 3-40 ml vials, HCl	RSK-175 - M,E,E 40 ml vials, HCl	SW9060A - TOC 10 ml amber vials, H2SO4	SW8260B - VOC TB 2-40 ml vials, HCl
DLF-G75 Screen 1	NS	MW	Water	BP	5/13/19	10:11						
DLF-G75 Screen 2					5/13/19	11:54						
DLF-G75 Screen 3					5/13/19	14:11						
DLF-G75 Screen 4					5/14/19	12:56						
DLF-G75 Screen 5					5/14/19	14:01						
DLF-G75 Screen 6					5/14/19	15:11						
DLF-G70					5/15/19	10:16						
DLF-G32					5/14/19	15:56						
DLF-G42					5/13/19	15:41						
DLF-G42	MS/MSD				5/13/19	15:41						
PPMP-229-QP12	NS				5/14/19	12:31						
QUP# 319	FD	FD		G	5/13/19	N/A						
EB 128	EB	EB		G	5/15/19	12:15						
MB 098	MB	MB		G	5/15/19	12:00						
TB 532	TB	TB		G	5/15/19	12:30						
DLF-G31	NS	MW		BP	5/15/19	11:56						



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
 Sampling Methods: B = bailer, BP = bladder pump, C = composite, G = Grab, PDB = PDB bag, PP = peristaltic pump, SU = submersible pump
 White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
 See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature):
 Date/Time: 5/15/19 16:00
 Received by (Signature): FedEx

Relinquished by (Signature):
 Date/Time: 5/16/19 9:00 4.9/50
 Received by (Signature):

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-169087-1

Login Number: 169087

List Source: Eurofins TestAmerica, Savannah

List Number: 1

Creator: Weston, Pamela

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	