

October 11, 2017

Ms. Jennifer Stirk
Volusia County Solid Waste Management
1990 Tomoka Farms Road
Port Orange, FL 32128

RE: Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Dear Ms. Stirk:

Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: John Catches, HDR Engineering, Inc.
Handi Wang, HDR Engineering, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35338743001	Equipment Blank 9/29/17	Water	09/29/17 07:50	09/29/17 18:10
35338743002	TMW 1A	Water	09/29/17 08:44	09/29/17 18:10
35338743003	TMW 1A Dup	Water	09/29/17 08:44	09/29/17 18:10
35338743004	TMW 1B	Water	09/29/17 09:47	09/29/17 18:10
35338743005	TMW 2A	Water	09/29/17 10:58	09/29/17 18:10
35338743006	TMW 2B	Water	09/29/17 11:51	09/29/17 18:10
35338743007	MW 100-6	Water	09/29/17 13:01	09/29/17 18:10
35338743008	B5-28	Water	09/29/17 13:47	09/29/17 18:10
35338743009	TMW 3B	Water	09/29/17 14:43	09/29/17 18:10
35338743010	TMW 3A	Water	09/29/17 15:32	09/29/17 18:10
35338743011	TMW 5B	Water	09/29/17 16:32	09/29/17 18:10
35338743012	TMW 4B	Water	09/29/17 17:32	09/29/17 18:10
35338743013	Trip Blank 9/29/17	Water	09/29/17 00:01	09/29/17 18:10

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SAMPLE ANALYTE COUNT

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35338743001	Equipment Blank 9/29/17	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743002	TMW 1A	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	WDV	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743003	TMW 1A Dup	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743004	TMW 1B	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743005	TMW 2A	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743006	TMW 2B	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C

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SAMPLE ANALYTE COUNT

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35338743007	MW 100-6	EPA 6010	MMT	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	MMT	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
35338743008	B5-28	EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
35338743009	TMW 3B	RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
35338743010	TMW 3A	SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
35338743011	TMW 5B	EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	SK1	48	PASI-O

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SAMPLE ANALYTE COUNT

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35338743012	TMW 4B	SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		RSK 175 Modified	TSM	3	PASI-C
		EPA 6010	BTS	1	PASI-O
		EPA 8260	BTN, SK1	48	PASI-O
		SM 2320B	AGS	1	PASI-O
		EPA 300.0	CMB	2	PASI-O
35338743013	Trip Blank 9/29/17	EPA 353.2	KEK	1	PASI-O
		EPA 8260	BTN	50	PASI-O

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338743001	Equipment Blank 9/29/17					
EPA 6010	Sodium	4.1	mg/L	1.0	10/06/17 09:26	
SM 2320B	Carbon Dioxide, Free	0.18	mg/L		10/10/17 17:05	
35338743002	TMW 1A					
	Field pH	6.52	Std. Units		10/02/17 11:25	
	Field Temperature	23.8	deg C		10/02/17 11:25	
	Field Specific Conductance	2130	umhos/cm		10/02/17 11:25	
	Oxygen, Dissolved	0.13	mg/L		10/02/17 11:25	
	REDOX	-106.1	mV		10/02/17 11:25	
	Turbidity	19.15	NTU		10/02/17 11:25	
	Depth to Water	2.85	feet		10/02/17 11:25	
RSK 175 Modified	Ethane	3380	ug/L	100	10/05/17 20:48	
RSK 175 Modified	Ethene	470	ug/L	100	10/05/17 20:48	
RSK 175 Modified	Methane	26300	ug/L	100	10/05/17 20:48	P2
EPA 6010	Sodium	395	mg/L	1.0	10/06/17 09:30	
EPA 8260	Benzene	3.9	ug/L	1.0	10/02/17 13:43	
EPA 8260	Chlorobenzene	2.9	ug/L	1.0	10/02/17 13:43	
EPA 8260	Chloroethane	1.3 l	ug/L	10.0	10/02/17 13:43	
EPA 8260	1,1-Dichloroethene	11.2	ug/L	1.0	10/02/17 13:43	
EPA 8260	cis-1,2-Dichloroethene	351	ug/L	50.0	10/03/17 06:23	
EPA 8260	trans-1,2-Dichloroethene	1.2	ug/L	1.0	10/02/17 13:43	
EPA 8260	Toluene	9.3	ug/L	1.0	10/02/17 13:43	
EPA 8260	Vinyl chloride	2450	ug/L	50.0	10/03/17 06:23	
EPA 8260	Xylene (Total)	4.3	ug/L	3.0	10/02/17 13:43	
SM 2320B	Carbon Dioxide, Free	9.6	mg/L		10/10/17 17:14	
EPA 300.0	Chloride	112	mg/L	25.0	10/02/17 08:20	
EPA 300.0	Sulfate	36.9	mg/L	25.0	10/02/17 08:20	J(M1)
35338743003	TMW 1A Dup					
	Field pH	6.52	Std. Units		10/02/17 11:27	
	Field Temperature	23.8	deg C		10/02/17 11:27	
	Field Specific Conductance	2130	umhos/cm		10/02/17 11:27	
	Oxygen, Dissolved	0.13	mg/L		10/02/17 11:27	
	REDOX	-106.1	mV		10/02/17 11:27	
	Turbidity	19.15	NTU		10/02/17 11:27	
	Depth to Water	2.85	feet		10/02/17 11:27	
RSK 175 Modified	Ethane	3840	ug/L	100	10/06/17 11:09	
RSK 175 Modified	Ethene	554	ug/L	100	10/06/17 11:09	
RSK 175 Modified	Methane	29900	ug/L	100	10/06/17 11:09	
EPA 6010	Sodium	388	mg/L	1.0	10/06/17 09:42	
EPA 8260	Benzene	4.2	ug/L	1.0	10/02/17 14:33	
EPA 8260	Chlorobenzene	3.0	ug/L	1.0	10/02/17 14:33	
EPA 8260	Chloroethane	1.9 l	ug/L	10.0	10/02/17 14:33	
EPA 8260	1,1-Dichloroethene	11.2	ug/L	1.0	10/02/17 14:33	
EPA 8260	cis-1,2-Dichloroethene	347	ug/L	50.0	10/03/17 07:13	J(P6)
EPA 8260	trans-1,2-Dichloroethene	1.2	ug/L	1.0	10/02/17 14:33	
EPA 8260	Toluene	10.4	ug/L	1.0	10/02/17 14:33	
EPA 8260	Vinyl chloride	2580	ug/L	50.0	10/03/17 07:13	J(P6)

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338743003	TMW 1A Dup					
EPA 8260	Xylene (Total)	4.7	ug/L	3.0	10/02/17 14:33	
SM 2320B	Carbon Dioxide, Free	9.7	mg/L		10/10/17 17:24	
EPA 300.0	Chloride	114	mg/L	25.0	10/02/17 09:31	
EPA 300.0	Sulfate	37.5	mg/L	25.0	10/02/17 09:31	
35338743004	TMW 1B					
	Field pH	6.31	Std. Units		10/02/17 11:29	
	Field Temperature	24.2	deg C		10/02/17 11:29	
	Field Specific Conductance	1190	umhos/cm		10/02/17 11:29	
	Oxygen, Dissolved	0.12	mg/L		10/02/17 11:29	
	REDOX	-55.4	mV		10/02/17 11:29	
	Turbidity	1.36	NTU		10/02/17 11:29	
	Depth to Water	8.15	feet		10/02/17 11:29	
RSK 175 Modified	Ethane	239	ug/L	10.0	10/06/17 11:24	
RSK 175 Modified	Ethene	430	ug/L	10.0	10/06/17 11:24	
RSK 175 Modified	Methane	12000	ug/L	10.0	10/06/17 11:24	
EPA 6010	Sodium	134	mg/L	1.0	10/06/17 09:46	
EPA 8260	Benzene	1.5	ug/L	1.0	10/02/17 14:59	
EPA 8260	1,1-Dichloroethene	229	ug/L	100	10/03/17 07:39	
EPA 8260	cis-1,2-Dichloroethene	5180	ug/L	100	10/03/17 07:39	
EPA 8260	trans-1,2-Dichloroethene	15.6	ug/L	1.0	10/02/17 14:59	
EPA 8260	Toluene	4.3	ug/L	1.0	10/02/17 14:59	
EPA 8260	Trichloroethene	1.3	ug/L	1.0	10/02/17 14:59	
EPA 8260	Vinyl chloride	3070	ug/L	100	10/03/17 07:39	
SM 2320B	Carbon Dioxide, Free	3.8	mg/L		10/10/17 17:30	
EPA 300.0	Chloride	98.7	mg/L	25.0	10/02/17 09:54	
EPA 300.0	Sulfate	77.0	mg/L	25.0	10/02/17 09:54	
35338743005	TMW 2A					
	Field pH	6.30	Std. Units		10/02/17 11:31	
	Field Temperature	24.3	deg C		10/02/17 11:31	
	Field Specific Conductance	1650	umhos/cm		10/02/17 11:31	
	Oxygen, Dissolved	0.10	mg/L		10/02/17 11:31	
	REDOX	-92.0	mV		10/02/17 11:31	
	Turbidity	4.38	NTU		10/02/17 11:31	
	Depth to Water	3.20	feet		10/02/17 11:31	
RSK 175 Modified	Ethane	495	ug/L	10.0	10/06/17 11:39	
RSK 175 Modified	Methane	11900	ug/L	10.0	10/06/17 11:39	
EPA 6010	Sodium	197	mg/L	1.0	10/06/17 09:50	
EPA 8260	Benzene	0.99	ug/L	1.0	10/03/17 01:46	
EPA 8260	Chlorobenzene	1.3	ug/L	1.0	10/03/17 01:46	
EPA 8260	cis-1,2-Dichloroethene	1.9	ug/L	1.0	10/03/17 01:46	
EPA 8260	Vinyl chloride	1.4	ug/L	1.0	10/03/17 01:46	
SM 2320B	Carbon Dioxide, Free	6.9	mg/L		10/10/17 17:37	
EPA 300.0	Chloride	63.7	mg/L	25.0	10/02/17 10:17	
EPA 300.0	Sulfate	46.6	mg/L	25.0	10/02/17 10:17	
35338743006	TMW 2B					
	Field pH	6.48	Std. Units		10/02/17 11:32	

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35338743006	TMW 2B					
	Field Temperature	25.8	deg C		10/02/17 11:32	
	Field Specific Conductance	1568	umhos/cm		10/02/17 11:32	
	Oxygen, Dissolved	0.19	mg/L		10/02/17 11:32	
	REDOX	-71.9	mV		10/02/17 11:32	
	Turbidity	0.67	NTU		10/02/17 11:32	
	Depth to Water	8.50	feet		10/02/17 11:32	
RSK 175 Modified	Ethane	187	ug/L	10.0	10/06/17 11:55	
RSK 175 Modified	Ethene	79.7	ug/L	10.0	10/06/17 11:55	
RSK 175 Modified	Methane	4960	ug/L	10.0	10/06/17 11:55	
EPA 6010	Sodium	233	mg/L	1.0	10/06/17 09:54	
EPA 8260	Benzene	0.78 l	ug/L	1.0	10/02/17 15:49	
EPA 8260	1,1-Dichloroethene	4.0	ug/L	1.0	10/02/17 15:49	
EPA 8260	cis-1,2-Dichloroethene	275	ug/L	50.0	10/03/17 08:04	
EPA 8260	trans-1,2-Dichloroethene	0.73 l	ug/L	1.0	10/02/17 15:49	
EPA 8260	Vinyl chloride	1110	ug/L	50.0	10/03/17 08:04	
SM 2320B	Carbon Dioxide, Free	5.1	mg/L		10/10/17 17:44	
EPA 300.0	Chloride	92.9	mg/L	25.0	10/02/17 10:41	
EPA 300.0	Sulfate	122	mg/L	25.0	10/02/17 10:41	
EPA 353.2	Nitrogen, Nitrate	0.025 l	mg/L	0.050	09/30/17 09:19	
35338743007	MW 100-6					
	Field pH	6.45	Std. Units		10/02/17 11:33	
	Field Temperature	23.9	deg C		10/02/17 11:33	
	Field Specific Conductance	716	umhos/cm		10/02/17 11:33	
	Oxygen, Dissolved	0.07	mg/L		10/02/17 11:33	
	REDOX	-58.4	mV		10/02/17 11:33	
	Turbidity	7.60	NTU		10/02/17 11:33	
	Depth to Water	8.65	feet		10/02/17 11:33	
RSK 175 Modified	Ethane	36.6	ug/L	10.0	10/06/17 12:10	
RSK 175 Modified	Methane	7650	ug/L	10.0	10/06/17 12:10	
EPA 6010	Sodium	34.6	mg/L	1.0	10/06/17 09:58	
EPA 8260	cis-1,2-Dichloroethene	0.81 l	ug/L	1.0	10/03/17 02:11	
EPA 8260	Vinyl chloride	0.89 l	ug/L	1.0	10/03/17 02:11	
SM 2320B	Carbon Dioxide, Free	2.9	mg/L		10/10/17 18:03	
EPA 300.0	Chloride	49.0	mg/L	5.0	10/02/17 11:04	
35338743008	B5-28					
	Field pH	6.56	Std. Units		10/02/17 11:34	
	Field Temperature	24.9	deg C		10/02/17 11:34	
	Field Specific Conductance	1181	umhos/cm		10/02/17 11:34	
	Oxygen, Dissolved	0.09	mg/L		10/02/17 11:34	
	REDOX	-112.7	mV		10/02/17 11:34	
	Turbidity	3.48	NTU		10/02/17 11:34	
	Depth to Water	2.15	feet		10/02/17 11:34	
RSK 175 Modified	Ethane	64.0	ug/L	10.0	10/06/17 12:25	
RSK 175 Modified	Methane	4570	ug/L	10.0	10/06/17 12:25	
EPA 6010	Sodium	74.2	mg/L	1.0	10/06/17 23:54	
EPA 8260	Benzene	0.28 l	ug/L	1.0	10/03/17 02:36	

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338743008	B5-28					
EPA 8260	Chlorobenzene	1.9	ug/L	1.0	10/03/17 02:36	
EPA 8260	cis-1,2-Dichloroethene	0.83	l	1.0	10/03/17 02:36	
EPA 8260	Vinyl chloride	3.9	ug/L	1.0	10/03/17 02:36	
SM 2320B	Carbon Dioxide, Free	5.6	mg/L		10/10/17 18:16	
EPA 300.0	Chloride	24.7	mg/L	5.0	10/04/17 03:42	
EPA 300.0	Sulfate	4.4	l	5.0	10/04/17 03:42	
35338743009	TMW 3B					
	Field pH	6.29	Std. Units		10/02/17 11:35	
	Field Temperature	26.3	deg C		10/02/17 11:35	
	Field Specific Conductance	1753	umhos/cm		10/02/17 11:35	
	Oxygen, Dissolved	0.18	mg/L		10/02/17 11:35	
	REDOX	-68.7	mV		10/02/17 11:35	
	Turbidity	8.93	NTU		10/02/17 11:35	
	Depth to Water	11.08	feet		10/02/17 11:35	
RSK 175 Modified	Ethane	661	ug/L	100	10/06/17 12:41	
RSK 175 Modified	Ethene	741	ug/L	100	10/06/17 12:41	
RSK 175 Modified	Methane	31500	ug/L	100	10/06/17 12:41	
EPA 6010	Sodium	102	mg/L	1.0	10/06/17 23:58	
EPA 8260	Benzene	4.7	ug/L	1.0	10/02/17 17:05	
EPA 8260	Chlorobenzene	5.1	ug/L	1.0	10/02/17 17:05	
EPA 8260	1,1-Dichloroethene	1290	ug/L	100	10/03/17 23:20	
EPA 8260	cis-1,2-Dichloroethene	8660	ug/L	100	10/03/17 23:20	
EPA 8260	trans-1,2-Dichloroethene	150	ug/L	100	10/03/17 23:20	
EPA 8260	Ethylbenzene	1.3	ug/L	1.0	10/02/17 17:05	
EPA 8260	Toluene	5.1	ug/L	1.0	10/02/17 17:05	
EPA 8260	Trichloroethene	1560	ug/L	100	10/03/17 23:20	
EPA 8260	Vinyl chloride	1940	ug/L	100	10/03/17 23:20	
EPA 8260	Xylene (Total)	3.8	ug/L	3.0	10/02/17 17:05	
SM 2320B	Carbon Dioxide, Free	6.6	mg/L		10/10/17 18:23	
EPA 300.0	Chloride	136	mg/L	25.0	10/02/17 11:51	
EPA 300.0	Sulfate	9.8	mg/L	5.0	10/04/17 04:06	
35338743010	TMW 3A					
	Field pH	6.23	Std. Units		10/02/17 11:44	
	Field Temperature	24.7	deg C		10/02/17 11:44	
	Field Specific Conductance	1739	umhos/cm		10/02/17 11:44	
	Oxygen, Dissolved	0.05	mg/L		10/02/17 11:44	
	REDOX	-70.4	mV		10/02/17 11:44	
	Turbidity	3.30	NTU		10/02/17 11:44	
	Depth to Water	4.00	feet		10/02/17 11:44	
RSK 175 Modified	Ethane	719	ug/L	100	10/06/17 12:57	
RSK 175 Modified	Ethene	549	ug/L	100	10/06/17 12:57	
RSK 175 Modified	Methane	32200	ug/L	100	10/06/17 12:57	
EPA 6010	Sodium	87.3	mg/L	1.0	10/07/17 00:02	
EPA 8260	Benzene	6.2	ug/L	1.0	10/02/17 17:30	
EPA 8260	Chlorobenzene	5.9	ug/L	1.0	10/02/17 17:30	
EPA 8260	1,1-Dichloroethene	645	ug/L	250	10/03/17 13:56	

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338743010	TMW 3A					
EPA 8260	cis-1,2-Dichloroethene	3600	ug/L	250	10/03/17 13:56	
EPA 8260	trans-1,2-Dichloroethene	65.4	ug/L	1.0	10/02/17 17:30	
EPA 8260	Ethylbenzene	2.4	ug/L	1.0	10/02/17 17:30	
EPA 8260	Toluene	5.0	ug/L	1.0	10/02/17 17:30	
EPA 8260	Trichloroethene	1310	ug/L	250	10/03/17 13:56	
EPA 8260	Vinyl chloride	1060	ug/L	250	10/03/17 13:56	
EPA 8260	Xylene (Total)	7.2	ug/L	3.0	10/02/17 17:30	
SM 2320B	Carbon Dioxide, Free	6.7	mg/L		10/10/17 18:31	
EPA 300.0	Chloride	133	mg/L	25.0	10/02/17 12:14	
35338743011	TMW 5B					
	Field pH	6.35	Std. Units		10/02/17 11:45	
	Field Temperature	24.7	deg C		10/02/17 11:45	
	Field Specific Conductance	1853	umhos/cm		10/02/17 11:45	
	Oxygen, Dissolved	0.09	mg/L		10/02/17 11:45	
	REDOX	-105.5	mV		10/02/17 11:45	
	Turbidity	5.89	NTU		10/02/17 11:45	
	Depth to Water	5.42	feet		10/02/17 11:45	
RSK 175 Modified	Ethane	149	ug/L	100	10/06/17 13:13	
RSK 175 Modified	Methane	31900	ug/L	100	10/06/17 13:13	
EPA 6010	Sodium	99.2	mg/L	1.0	10/07/17 00:06	
EPA 8260	Benzene	1.4	ug/L	1.0	10/03/17 03:01	
EPA 8260	Chlorobenzene	7.1	ug/L	1.0	10/03/17 03:01	
EPA 8260	1,1-Dichloroethene	2.3	ug/L	1.0	10/03/17 03:01	
EPA 8260	cis-1,2-Dichloroethene	8.1	ug/L	1.0	10/03/17 03:01	
EPA 8260	Trichloroethene	3.6	ug/L	1.0	10/03/17 03:01	
EPA 8260	Vinyl chloride	9.9	ug/L	1.0	10/03/17 03:01	
SM 2320B	Carbon Dioxide, Free	7.8	mg/L		10/10/17 18:39	
EPA 300.0	Chloride	89.3	mg/L	25.0	10/02/17 13:25	
35338743012	TMW 4B					
	Field pH	6.53	Std. Units		10/02/17 11:46	
	Field Temperature	25.5	deg C		10/02/17 11:46	
	Field Specific Conductance	972	umhos/cm		10/02/17 11:46	
	Oxygen, Dissolved	0.16	mg/L		10/02/17 11:46	
	REDOX	-85.4	mV		10/02/17 11:46	
	Turbidity	1.24	NTU		10/02/17 11:46	
	Depth to Water	7.00	feet		10/02/17 11:46	
RSK 175 Modified	Ethane	136	ug/L	10.0	10/06/17 13:28	
RSK 175 Modified	Ethene	125	ug/L	10.0	10/06/17 13:28	
RSK 175 Modified	Methane	8180	ug/L	10.0	10/06/17 13:28	
EPA 6010	Sodium	115	mg/L	1.0	10/07/17 00:11	
EPA 8260	Benzene	0.33 l	ug/L	1.0	10/02/17 18:20	
EPA 8260	1,1-Dichloroethene	2.0	ug/L	1.0	10/02/17 18:20	
EPA 8260	cis-1,2-Dichloroethene	293	ug/L	50.0	10/03/17 14:21	
EPA 8260	trans-1,2-Dichloroethene	0.63 l	ug/L	1.0	10/02/17 18:20	
EPA 8260	Toluene	1.2	ug/L	1.0	10/02/17 18:20	
EPA 8260	Trichloroethene	3.5	ug/L	1.0	10/02/17 18:20	

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SUMMARY OF DETECTION

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35338743012	TMW 4B					
EPA 8260	Vinyl chloride	1080	ug/L	50.0	10/03/17 14:21	
SM 2320B	Carbon Dioxide, Free	3.3	mg/L		10/10/17 18:45	
EPA 300.0	Chloride	79.5	mg/L	10.0	10/02/17 13:48	
EPA 300.0	Sulfate	21.8	mg/L	10.0	10/02/17 13:48	

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PROJECT NARRATIVE

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Date: October 11, 2017

Headspace was observed in the vials for the 8260 analysis for sample ID TMW 3B. This may be due to a reaction between the HCl preservative and sample matrix.

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: Equipment Blank 9/29/17 **Lab ID:** 35338743001 **Collected:** 09/29/17 07:50 **Received:** 09/29/17 18:10 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 07:51	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	10/02/17 13:40	10/03/17 07:51	106-93-4	
RSK 175 Headspace Analytical Method: RSK 175 Modified									
Ethane	10.0 U	ug/L	10.0	10.0	1		10/06/17 10:53	74-84-0	
Ethene	10.0 U	ug/L	10.0	10.0	1		10/06/17 10:53	74-85-1	
Methane	10.0 U	ug/L	10.0	10.0	1		10/06/17 10:53	74-82-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	4.1	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:26	7440-23-5	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 12:02	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/02/17 12:02	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 12:02	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 12:02	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 12:02	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 12:02	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 12:02	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 12:02	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 12:02	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 12:02	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 12:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 12:02	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	630-20-6	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: Equipment Blank 9/29/17 **Lab ID:** 35338743001 Collected: 09/29/17 07:50 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 12:02	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 12:02	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 12:02	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 12:02	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 12:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		10/02/17 12:02	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	105	%	75-135		1		10/02/17 12:02	17060-07-0	
Toluene-d8 (S)	99	%	89-112		1		10/02/17 12:02	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	0.18	mg/L			1		10/10/17 17:05		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	2.5 U	mg/L	5.0	2.5	1		10/02/17 07:57	16887-00-6	
Sulfate	2.5 U	mg/L	5.0	2.5	1		10/02/17 07:57	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:13		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 1A **Lab ID: 35338743002** Collected: 09/29/17 08:44 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.52	Std. Units			1		10/02/17 11:25		
Field Temperature	23.8	deg C			1		10/02/17 11:25		
Field Specific Conductance	2130	umhos/cm			1		10/02/17 11:25		
Oxygen, Dissolved	0.13	mg/L			1		10/02/17 11:25	7782-44-7	
REDOX	-106.1	mV			1		10/02/17 11:25		
Turbidity	19.15	NTU			1		10/02/17 11:25		
Depth to Water	2.85	feet			1		10/02/17 11:25		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 08:05	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	10/02/17 13:40	10/03/17 08:05	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	3380	ug/L	100	100	10		10/05/17 20:48	74-84-0	
Ethene	470	ug/L	100	100	10		10/05/17 20:48	74-85-1	
Methane	26300	ug/L	100	100	10		10/05/17 20:48	74-82-8	P2
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	395	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:30	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 13:43	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	107-13-1	
Benzene	3.9	ug/L	1.0	0.10	1		10/02/17 13:43	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 13:43	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 13:43	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	56-23-5	
Chlorobenzene	2.9	ug/L	1.0	0.50	1		10/02/17 13:43	108-90-7	
Chloroethane	1.3 I	ug/L	10.0	0.50	1		10/02/17 13:43	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 13:43	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 13:43	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	107-06-2	
1,1-Dichloroethene	11.2	ug/L	1.0	0.50	1		10/02/17 13:43	75-35-4	
cis-1,2-Dichloroethene	351	ug/L	50.0	25.0	50		10/03/17 06:23	156-59-2	
trans-1,2-Dichloroethene	1.2	ug/L	1.0	0.50	1		10/02/17 13:43	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 1A **Lab ID: 35338743002** Collected: 09/29/17 08:44 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:43	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 13:43	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 13:43	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 13:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 13:43	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 13:43	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	127-18-4	
Toluene	9.3	ug/L	1.0	0.50	1		10/02/17 13:43	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 13:43	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 13:43	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 13:43	108-05-4	
Vinyl chloride	2450	ug/L	50.0	25.0	50		10/03/17 06:23	75-01-4	
Xylene (Total)	4.3	ug/L	3.0	1.5	1		10/02/17 13:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	89-111		1		10/02/17 13:43	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-135		1		10/02/17 13:43	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		10/02/17 13:43	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	9.6	mg/L			1		10/10/17 17:14		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	112	mg/L	25.0	12.5	5		10/02/17 08:20	16887-00-6	
Sulfate	36.9	mg/L	25.0	12.5	5		10/02/17 08:20	14808-79-8	J(M1)
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:14		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 1A Dup **Lab ID: 35338743003** Collected: 09/29/17 08:44 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.52	Std. Units			1		10/02/17 11:27		
Field Temperature	23.8	deg C			1		10/02/17 11:27		
Field Specific Conductance	2130	umhos/cm			1		10/02/17 11:27		
Oxygen, Dissolved	0.13	mg/L			1		10/02/17 11:27	7782-44-7	
REDOX	-106.1	mV			1		10/02/17 11:27		
Turbidity	19.15	NTU			1		10/02/17 11:27		
Depth to Water	2.85	feet			1		10/02/17 11:27		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	10/02/17 13:40	10/03/17 08:34	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	10/02/17 13:40	10/03/17 08:34	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	3840	ug/L	100	100	10		10/06/17 11:09	74-84-0	
Ethene	554	ug/L	100	100	10		10/06/17 11:09	74-85-1	
Methane	29900	ug/L	100	100	10		10/06/17 11:09	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	388	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:42	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 14:33	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	107-13-1	
Benzene	4.2	ug/L	1.0	0.10	1		10/02/17 14:33	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 14:33	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 14:33	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	56-23-5	
Chlorobenzene	3.0	ug/L	1.0	0.50	1		10/02/17 14:33	108-90-7	
Chloroethane	1.9 I	ug/L	10.0	0.50	1		10/02/17 14:33	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 14:33	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 14:33	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	107-06-2	
1,1-Dichloroethene	11.2	ug/L	1.0	0.50	1		10/02/17 14:33	75-35-4	
cis-1,2-Dichloroethene	347	ug/L	50.0	25.0	50		10/03/17 07:13	156-59-2	J(P6)
trans-1,2-Dichloroethene	1.2	ug/L	1.0	0.50	1		10/02/17 14:33	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 1A Dup		Lab ID: 35338743003		Collected: 09/29/17 08:44		Received: 09/29/17 18:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 14:33	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 14:33	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 14:33	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 14:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:33	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 14:33	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	127-18-4	
Toluene	10.4	ug/L	1.0	0.50	1		10/02/17 14:33	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:33	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 14:33	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 14:33	108-05-4	
Vinyl chloride	2580	ug/L	50.0	25.0	50		10/03/17 07:13	75-01-4	J(P6)
Xylene (Total)	4.7	ug/L	3.0	1.5	1		10/02/17 14:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	89-111		1		10/02/17 14:33	460-00-4	J(S0)
1,2-Dichloroethane-d4 (S)	103	%	75-135		1		10/02/17 14:33	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		10/02/17 14:33	2037-26-5	
2320B Alkalinity		Analytical Method: SM 2320B							
Carbon Dioxide, Free	9.7	mg/L			1		10/10/17 17:24		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	114	mg/L	25.0	12.5	5		10/02/17 09:31	16887-00-6	
Sulfate	37.5	mg/L	25.0	12.5	5		10/02/17 09:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:16		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 1B **Lab ID: 35338743004** Collected: 09/29/17 09:47 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.31	Std. Units			1		10/02/17 11:29		
Field Temperature	24.2	deg C			1		10/02/17 11:29		
Field Specific Conductance	1190	umhos/cm			1		10/02/17 11:29		
Oxygen, Dissolved	0.12	mg/L			1		10/02/17 11:29	7782-44-7	
REDOX	-55.4	mV			1		10/02/17 11:29		
Turbidity	1.36	NTU			1		10/02/17 11:29		
Depth to Water	8.15	feet			1		10/02/17 11:29		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 08:49	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	10/02/17 13:40	10/03/17 08:49	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	239	ug/L	10.0	10.0	1		10/06/17 11:24	74-84-0	
Ethene	430	ug/L	10.0	10.0	1		10/06/17 11:24	74-85-1	
Methane	12000	ug/L	10.0	10.0	1		10/06/17 11:24	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	134	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:46	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 14:59	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	107-13-1	
Benzene	1.5	ug/L	1.0	0.10	1		10/02/17 14:59	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 14:59	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 14:59	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 14:59	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 14:59	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 14:59	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	107-06-2	
1,1-Dichloroethene	229	ug/L	100	50.0	100		10/03/17 07:39	75-35-4	
cis-1,2-Dichloroethene	5180	ug/L	100	50.0	100		10/03/17 07:39	156-59-2	
trans-1,2-Dichloroethene	15.6	ug/L	1.0	0.50	1		10/02/17 14:59	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 1B **Lab ID: 35338743004** Collected: 09/29/17 09:47 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 14:59	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 14:59	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 14:59	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 14:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 14:59	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 14:59	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	127-18-4	
Toluene	4.3	ug/L	1.0	0.50	1		10/02/17 14:59	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	79-00-5	
Trichloroethene	1.3	ug/L	1.0	0.50	1		10/02/17 14:59	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 14:59	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 14:59	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 14:59	108-05-4	
Vinyl chloride	3070	ug/L	100	50.0	100		10/03/17 07:39	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 14:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		10/02/17 14:59	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-135		1		10/02/17 14:59	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/02/17 14:59	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	3.8	mg/L			1		10/10/17 17:30		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	98.7	mg/L	25.0	12.5	5		10/02/17 09:54	16887-00-6	
Sulfate	77.0	mg/L	25.0	12.5	5		10/02/17 09:54	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:17		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Sample: TMW 2A **Lab ID: 35338743005** Collected: 09/29/17 10:58 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.30	Std. Units			1		10/02/17 11:31		
Field Temperature	24.3	deg C			1		10/02/17 11:31		
Field Specific Conductance	1650	umhos/cm			1		10/02/17 11:31		
Oxygen, Dissolved	0.10	mg/L			1		10/02/17 11:31	7782-44-7	
REDOX	-92.0	mV			1		10/02/17 11:31		
Turbidity	4.38	NTU			1		10/02/17 11:31		
Depth to Water	3.20	feet			1		10/02/17 11:31		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 09:04	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	10/02/17 13:40	10/03/17 09:04	106-93-4	
RSK 175 Headspace Analytical Method: RSK 175 Modified									
Ethane	495	ug/L	10.0	10.0	1		10/06/17 11:39	74-84-0	
Ethene	10.0 U	ug/L	10.0	10.0	1		10/06/17 11:39	74-85-1	
Methane	11900	ug/L	10.0	10.0	1		10/06/17 11:39	74-82-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	197	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:50	7440-23-5	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/03/17 01:46	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	107-13-1	
Benzene	0.99 I	ug/L	1.0	0.10	1		10/03/17 01:46	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/03/17 01:46	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/03/17 01:46	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	78-93-3	J(L2)
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	56-23-5	
Chlorobenzene	1.3	ug/L	1.0	0.50	1		10/03/17 01:46	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 01:46	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/03/17 01:46	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/03/17 01:46	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	75-35-4	
cis-1,2-Dichloroethene	1.9	ug/L	1.0	0.50	1		10/03/17 01:46	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 2A **Lab ID: 35338743005** Collected: 09/29/17 10:58 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 01:46	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 01:46	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	591-78-6	J(L2)
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 01:46	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/03/17 01:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 01:46	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/03/17 01:46	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 01:46	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/03/17 01:46	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/03/17 01:46	108-05-4	
Vinyl chloride	1.4	ug/L	1.0	0.50	1		10/03/17 01:46	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/03/17 01:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		10/03/17 01:46	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		10/03/17 01:46	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		10/03/17 01:46	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	6.9	mg/L			1		10/10/17 17:37		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	63.7	mg/L	25.0	12.5	5		10/02/17 10:17	16887-00-6	
Sulfate	46.6	mg/L	25.0	12.5	5		10/02/17 10:17	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:18		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 2B **Lab ID: 35338743006** Collected: 09/29/17 11:51 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.48	Std. Units			1		10/02/17 11:32		
Field Temperature	25.8	deg C			1		10/02/17 11:32		
Field Specific Conductance	1568	umhos/cm			1		10/02/17 11:32		
Oxygen, Dissolved	0.19	mg/L			1		10/02/17 11:32	7782-44-7	
REDOX	-71.9	mV			1		10/02/17 11:32		
Turbidity	0.67	NTU			1		10/02/17 11:32		
Depth to Water	8.50	feet			1		10/02/17 11:32		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	10/02/17 13:40	10/03/17 09:18	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	10/02/17 13:40	10/03/17 09:18	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	187	ug/L	10.0	10.0	1		10/06/17 11:55	74-84-0	
Ethene	79.7	ug/L	10.0	10.0	1		10/06/17 11:55	74-85-1	
Methane	4960	ug/L	10.0	10.0	1		10/06/17 11:55	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	233	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:54	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 15:49	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	107-13-1	
Benzene	0.78 I	ug/L	1.0	0.10	1		10/02/17 15:49	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 15:49	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 15:49	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 15:49	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 15:49	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 15:49	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	107-06-2	
1,1-Dichloroethene	4.0	ug/L	1.0	0.50	1		10/02/17 15:49	75-35-4	
cis-1,2-Dichloroethene	275	ug/L	50.0	25.0	50		10/03/17 08:04	156-59-2	
trans-1,2-Dichloroethene	0.73 I	ug/L	1.0	0.50	1		10/02/17 15:49	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 2B **Lab ID: 35338743006** Collected: 09/29/17 11:51 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 15:49	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 15:49	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 15:49	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 15:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 15:49	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 15:49	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 15:49	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 15:49	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 15:49	108-05-4	
Vinyl chloride	1110	ug/L	50.0	25.0	50		10/03/17 08:04	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 15:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	89-111		1		10/02/17 15:49	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-135		1		10/02/17 15:49	17060-07-0	
Toluene-d8 (S)	99	%	89-112		1		10/02/17 15:49	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	5.1	mg/L			1		10/10/17 17:44		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	92.9	mg/L	25.0	12.5	5		10/02/17 10:41	16887-00-6	
Sulfate	122	mg/L	25.0	12.5	5		10/02/17 10:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 I	mg/L	0.050	0.025	1		09/30/17 09:19		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: MW 100-6 **Lab ID: 35338743007** Collected: 09/29/17 13:01 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.45	Std. Units			1		10/02/17 11:33		
Field Temperature	23.9	deg C			1		10/02/17 11:33		
Field Specific Conductance	716	umhos/cm			1		10/02/17 11:33		
Oxygen, Dissolved	0.07	mg/L			1		10/02/17 11:33	7782-44-7	
REDOX	-58.4	mV			1		10/02/17 11:33		
Turbidity	7.60	NTU			1		10/02/17 11:33		
Depth to Water	8.65	feet			1		10/02/17 11:33		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 09:33	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	10/02/17 13:40	10/03/17 09:33	106-93-4	
RSK 175 Headspace Analytical Method: RSK 175 Modified									
Ethane	36.6	ug/L	10.0	10.0	1		10/06/17 12:10	74-84-0	
Ethene	10.0 U	ug/L	10.0	10.0	1		10/06/17 12:10	74-85-1	
Methane	7650	ug/L	10.0	10.0	1		10/06/17 12:10	74-82-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	34.6	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 09:58	7440-23-5	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/03/17 02:11	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/03/17 02:11	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/03/17 02:11	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/03/17 02:11	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	78-93-3	J(L2)
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 02:11	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/03/17 02:11	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/03/17 02:11	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	75-35-4	
cis-1,2-Dichloroethene	0.81 I	ug/L	1.0	0.50	1		10/03/17 02:11	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: MW 100-6 **Lab ID: 35338743007** Collected: 09/29/17 13:01 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 02:11	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 02:11	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	591-78-6	J(L2)
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 02:11	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/03/17 02:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:11	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/03/17 02:11	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:11	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/03/17 02:11	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/03/17 02:11	108-05-4	
Vinyl chloride	0.89 I	ug/L	1.0	0.50	1		10/03/17 02:11	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/03/17 02:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		10/03/17 02:11	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		10/03/17 02:11	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/03/17 02:11	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	2.9	mg/L			1		10/10/17 18:03		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	49.0	mg/L	5.0	2.5	1		10/02/17 11:04	16887-00-6	
Sulfate	2.5 U	mg/L	5.0	2.5	1		10/02/17 11:04	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:21		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: B5-28 **Lab ID: 35338743008** Collected: 09/29/17 13:47 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.56	Std. Units			1		10/02/17 11:34		
Field Temperature	24.9	deg C			1		10/02/17 11:34		
Field Specific Conductance	1181	umhos/cm			1		10/02/17 11:34		
Oxygen, Dissolved	0.09	mg/L			1		10/02/17 11:34	7782-44-7	
REDOX	-112.7	mV			1		10/02/17 11:34		
Turbidity	3.48	NTU			1		10/02/17 11:34		
Depth to Water	2.15	feet			1		10/02/17 11:34		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 09:48	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	10/02/17 13:40	10/03/17 09:48	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	64.0	ug/L	10.0	10.0	1		10/06/17 12:25	74-84-0	
Ethene	10.0 U	ug/L	10.0	10.0	1		10/06/17 12:25	74-85-1	
Methane	4570	ug/L	10.0	10.0	1		10/06/17 12:25	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	74.2	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 23:54	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/03/17 02:36	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	107-13-1	
Benzene	0.28 I	ug/L	1.0	0.10	1		10/03/17 02:36	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/03/17 02:36	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/03/17 02:36	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	78-93-3	J(L2)
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	56-23-5	
Chlorobenzene	1.9	ug/L	1.0	0.50	1		10/03/17 02:36	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 02:36	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/03/17 02:36	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/03/17 02:36	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	75-35-4	
cis-1,2-Dichloroethene	0.83 I	ug/L	1.0	0.50	1		10/03/17 02:36	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: B5-28 **Lab ID: 35338743008** Collected: 09/29/17 13:47 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 02:36	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 02:36	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	591-78-6	J(L2)
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 02:36	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/03/17 02:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 02:36	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/03/17 02:36	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 02:36	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/03/17 02:36	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/03/17 02:36	108-05-4	
Vinyl chloride	3.9	ug/L	1.0	0.50	1		10/03/17 02:36	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/03/17 02:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	89-111		1		10/03/17 02:36	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		10/03/17 02:36	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		10/03/17 02:36	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	5.6	mg/L			1		10/10/17 18:16		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	24.7	mg/L	5.0	2.5	1		10/04/17 03:42	16887-00-6	
Sulfate	4.4 I	mg/L	5.0	2.5	1		10/04/17 03:42	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:24		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 3B **Lab ID: 35338743009** Collected: 09/29/17 14:43 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.29	Std. Units			1		10/02/17 11:35		
Field Temperature	26.3	deg C			1		10/02/17 11:35		
Field Specific Conductance	1753	umhos/cm			1		10/02/17 11:35		
Oxygen, Dissolved	0.18	mg/L			1		10/02/17 11:35	7782-44-7	
REDOX	-68.7	mV			1		10/02/17 11:35		
Turbidity	8.93	NTU			1		10/02/17 11:35		
Depth to Water	11.08	feet			1		10/02/17 11:35		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	10/02/17 13:40	10/03/17 10:03	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.0099	0.0075	1	10/02/17 13:40	10/03/17 10:03	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	661	ug/L	100	100	10		10/06/17 12:41	74-84-0	
Ethene	741	ug/L	100	100	10		10/06/17 12:41	74-85-1	
Methane	31500	ug/L	100	100	10		10/06/17 12:41	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	102	mg/L	1.0	0.50	1	10/04/17 15:00	10/06/17 23:58	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 17:05	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	107-13-1	
Benzene	4.7	ug/L	1.0	0.10	1		10/02/17 17:05	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 17:05	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 17:05	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	56-23-5	
Chlorobenzene	5.1	ug/L	1.0	0.50	1		10/02/17 17:05	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 17:05	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 17:05	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 17:05	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	107-06-2	
1,1-Dichloroethene	1290	ug/L	100	50.0	100		10/03/17 23:20	75-35-4	
cis-1,2-Dichloroethene	8660	ug/L	100	50.0	100		10/03/17 23:20	156-59-2	
trans-1,2-Dichloroethene	150	ug/L	100	50.0	100		10/03/17 23:20	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Sample: TMW 3B **Lab ID: 35338743009** Collected: 09/29/17 14:43 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 17:05	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 17:05	10061-02-6	
Ethylbenzene	1.3	ug/L	1.0	0.50	1		10/02/17 17:05	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 17:05	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 17:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:05	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 17:05	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	127-18-4	
Toluene	5.1	ug/L	1.0	0.50	1		10/02/17 17:05	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	79-00-5	
Trichloroethene	1560	ug/L	100	50.0	100		10/03/17 23:20	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:05	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 17:05	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 17:05	108-05-4	
Vinyl chloride	1940	ug/L	100	50.0	100		10/03/17 23:20	75-01-4	
Xylene (Total)	3.8	ug/L	3.0	1.5	1		10/02/17 17:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	89-111		1		10/02/17 17:05	460-00-4	J(HS), J(S0)
1,2-Dichloroethane-d4 (S)	96	%	75-135		1		10/02/17 17:05	17060-07-0	
Toluene-d8 (S)	97	%	89-112		1		10/02/17 17:05	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	6.6	mg/L			1		10/10/17 18:23		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	136	mg/L	25.0	12.5	5		10/02/17 11:51	16887-00-6	
Sulfate	9.8	mg/L	5.0	2.5	1		10/04/17 04:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:28		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 3A **Lab ID: 35338743010** Collected: 09/29/17 15:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.23	Std. Units			1		10/02/17 11:44		
Field Temperature	24.7	deg C			1		10/02/17 11:44		
Field Specific Conductance	1739	umhos/cm			1		10/02/17 11:44		
Oxygen, Dissolved	0.05	mg/L			1		10/02/17 11:44	7782-44-7	
REDOX	-70.4	mV			1		10/02/17 11:44		
Turbidity	3.30	NTU			1		10/02/17 11:44		
Depth to Water	4.00	feet			1		10/02/17 11:44		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 10:17	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	10/02/17 13:40	10/03/17 10:17	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	719	ug/L	100	100	10		10/06/17 12:57	74-84-0	
Ethene	549	ug/L	100	100	10		10/06/17 12:57	74-85-1	
Methane	32200	ug/L	100	100	10		10/06/17 12:57	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	87.3	mg/L	1.0	0.50	1	10/04/17 15:00	10/07/17 00:02	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 17:30	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	107-13-1	
Benzene	6.2	ug/L	1.0	0.10	1		10/02/17 17:30	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 17:30	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 17:30	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	56-23-5	
Chlorobenzene	5.9	ug/L	1.0	0.50	1		10/02/17 17:30	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 17:30	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 17:30	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 17:30	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	107-06-2	
1,1-Dichloroethene	645	ug/L	250	125	250		10/03/17 13:56	75-35-4	
cis-1,2-Dichloroethene	3600	ug/L	250	125	250		10/03/17 13:56	156-59-2	
trans-1,2-Dichloroethene	65.4	ug/L	1.0	0.50	1		10/02/17 17:30	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 3A **Lab ID: 35338743010** Collected: 09/29/17 15:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 17:30	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 17:30	10061-02-6	
Ethylbenzene	2.4	ug/L	1.0	0.50	1		10/02/17 17:30	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 17:30	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 17:30	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 17:30	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	127-18-4	
Toluene	5.0	ug/L	1.0	0.50	1		10/02/17 17:30	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	79-00-5	
Trichloroethene	1310	ug/L	250	125	250		10/03/17 13:56	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 17:30	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 17:30	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 17:30	108-05-4	
Vinyl chloride	1060	ug/L	250	125	250		10/03/17 13:56	75-01-4	
Xylene (Total)	7.2	ug/L	3.0	1.5	1		10/02/17 17:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	89-111		1		10/02/17 17:30	460-00-4	J(HS), J(S0)
1,2-Dichloroethane-d4 (S)	99	%	75-135		1		10/02/17 17:30	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		10/02/17 17:30	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	6.7	mg/L			1		10/10/17 18:31		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	133	mg/L	25.0	12.5	5		10/02/17 12:14	16887-00-6	
Sulfate	2.5 U	mg/L	5.0	2.5	1		10/04/17 04:29	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:29		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Sample: TMW 5B **Lab ID: 35338743011** Collected: 09/29/17 16:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.35	Std. Units			1		10/02/17 11:45		
Field Temperature	24.7	deg C			1		10/02/17 11:45		
Field Specific Conductance	1853	umhos/cm			1		10/02/17 11:45		
Oxygen, Dissolved	0.09	mg/L			1		10/02/17 11:45	7782-44-7	
REDOX	-105.5	mV			1		10/02/17 11:45		
Turbidity	5.89	NTU			1		10/02/17 11:45		
Depth to Water	5.42	feet			1		10/02/17 11:45		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0065 U	ug/L	0.020	0.0065	1	10/02/17 13:40	10/03/17 10:32	96-12-8	
1,2-Dibromoethane (EDB)	0.0076 U	ug/L	0.010	0.0076	1	10/02/17 13:40	10/03/17 10:32	106-93-4	
RSK 175 Headspace Analytical Method: RSK 175 Modified									
Ethane	149	ug/L	100	100	10		10/06/17 13:13	74-84-0	
Ethene	100 U	ug/L	100	100	10		10/06/17 13:13	74-85-1	
Methane	31900	ug/L	100	100	10		10/06/17 13:13	74-82-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	99.2	mg/L	1.0	0.50	1	10/04/17 15:00	10/07/17 00:06	7440-23-5	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/03/17 03:01	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	107-13-1	
Benzene	1.4	ug/L	1.0	0.10	1		10/03/17 03:01	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/03/17 03:01	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/03/17 03:01	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	78-93-3	J(L2)
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	56-23-5	
Chlorobenzene	7.1	ug/L	1.0	0.50	1		10/03/17 03:01	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 03:01	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/03/17 03:01	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/03/17 03:01	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	107-06-2	
1,1-Dichloroethene	2.3	ug/L	1.0	0.50	1		10/03/17 03:01	75-35-4	
cis-1,2-Dichloroethene	8.1	ug/L	1.0	0.50	1		10/03/17 03:01	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 5B **Lab ID: 35338743011** Collected: 09/29/17 16:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 03:01	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/03/17 03:01	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	591-78-6	J(L2)
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/03/17 03:01	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/03/17 03:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/03/17 03:01	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/03/17 03:01	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	79-00-5	
Trichloroethene	3.6	ug/L	1.0	0.50	1		10/03/17 03:01	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/03/17 03:01	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/03/17 03:01	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/03/17 03:01	108-05-4	
Vinyl chloride	9.9	ug/L	1.0	0.50	1		10/03/17 03:01	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/03/17 03:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	89-111		1		10/03/17 03:01	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		10/03/17 03:01	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		10/03/17 03:01	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	7.8	mg/L			1		10/10/17 18:39		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	89.3	mg/L	25.0	12.5	5		10/02/17 13:25	16887-00-6	
Sulfate	2.5 U	mg/L	5.0	2.5	1		10/04/17 04:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:31		

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

Sample: TMW 4B **Lab ID: 35338743012** Collected: 09/29/17 17:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.53	Std. Units			1		10/02/17 11:46		
Field Temperature	25.5	deg C			1		10/02/17 11:46		
Field Specific Conductance	972	umhos/cm			1		10/02/17 11:46		
Oxygen, Dissolved	0.16	mg/L			1		10/02/17 11:46	7782-44-7	
REDOX	-85.4	mV			1		10/02/17 11:46		
Turbidity	1.24	NTU			1		10/02/17 11:46		
Depth to Water	7.00	feet			1		10/02/17 11:46		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	10/02/17 13:40	10/03/17 10:47	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	10/02/17 13:40	10/03/17 10:47	106-93-4	
RSK 175 Headspace									
Analytical Method: RSK 175 Modified									
Ethane	136	ug/L	10.0	10.0	1		10/06/17 13:28	74-84-0	
Ethene	125	ug/L	10.0	10.0	1		10/06/17 13:28	74-85-1	
Methane	8180	ug/L	10.0	10.0	1		10/06/17 13:28	74-82-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Sodium	115	mg/L	1.0	0.50	1	10/04/17 15:00	10/07/17 00:11	7440-23-5	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 18:20	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	107-13-1	
Benzene	0.33 I	ug/L	1.0	0.10	1		10/02/17 18:20	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 18:20	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 18:20	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 18:20	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 18:20	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 18:20	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	107-06-2	
1,1-Dichloroethene	2.0	ug/L	1.0	0.50	1		10/02/17 18:20	75-35-4	
cis-1,2-Dichloroethene	293	ug/L	50.0	25.0	50		10/03/17 14:21	156-59-2	
trans-1,2-Dichloroethene	0.63 I	ug/L	1.0	0.50	1		10/02/17 18:20	156-60-5	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: TMW 4B **Lab ID: 35338743012** Collected: 09/29/17 17:32 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 18:20	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 18:20	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 18:20	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 18:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 18:20	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 18:20	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	127-18-4	
Toluene	1.2	ug/L	1.0	0.50	1		10/02/17 18:20	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	79-00-5	
Trichloroethene	3.5	ug/L	1.0	0.50	1		10/02/17 18:20	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 18:20	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 18:20	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 18:20	108-05-4	
Vinyl chloride	1080	ug/L	50.0	25.0	50		10/03/17 14:21	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 18:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	89-111		1		10/02/17 18:20	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	105	%	75-135		1		10/02/17 18:20	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		10/02/17 18:20	2037-26-5	
2320B Alkalinity Analytical Method: SM 2320B									
Carbon Dioxide, Free	3.3	mg/L			1		10/10/17 18:45		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	79.5	mg/L	10.0	5.0	2		10/02/17 13:48	16887-00-6	
Sulfate	21.8	mg/L	10.0	5.0	2		10/02/17 13:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		09/30/17 09:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: Trip Blank 9/29/17 **Lab ID:** 35338743013 **Collected:** 09/29/17 00:01 **Received:** 09/29/17 18:10 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	10.0 U	ug/L	20.0	10.0	1		10/02/17 11:37	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		10/02/17 11:37	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		10/02/17 11:37	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		10/02/17 11:37	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 11:37	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		10/02/17 11:37	74-87-3	
1,2-Dibromo-3-chloropropane	1.0 U	ug/L	5.0	1.0	1		10/02/17 11:37	96-12-8	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		10/02/17 11:37	124-48-1	
1,2-Dibromoethane (EDB)	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	106-93-4	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 11:37	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		10/02/17 11:37	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		10/02/17 11:37	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		10/02/17 11:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		10/02/17 11:37	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		10/02/17 11:37	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		10/02/17 11:37	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		10/02/17 11:37	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		10/02/17 11:37	75-01-4	

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ANALYTICAL RESULTS

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Sample: Trip Blank 9/29/17 **Lab ID:** 35338743013 Collected: 09/29/17 00:01 Received: 09/29/17 18:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		10/02/17 11:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	89-111		1		10/02/17 11:37	460-00-4	J(HS)
1,2-Dichloroethane-d4 (S)	102	%	75-135		1		10/02/17 11:37	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		10/02/17 11:37	2037-26-5	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch: 381026

Analysis Method: RSK 175 Modified

QC Batch Method: RSK 175 Modified

Analysis Description: RSK 175 HEADSPACE

Associated Lab Samples: 35338743002

METHOD BLANK: 2111443

Matrix: Water

Associated Lab Samples: 35338743002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	ug/L	10.0 U	10.0	10.0	10/05/17 10:37	
Ethene	ug/L	10.0 U	10.0	10.0	10/05/17 10:37	
Methane	ug/L	18.0	10.0	10.0	10/05/17 10:37	

LABORATORY CONTROL SAMPLE: 2111444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	658	677	103	70-130	
Ethene	ug/L	1120	1250	111	70-130	
Methane	ug/L	396	386	98	70-130	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	381517	Analysis Method:	RSK 175 Modified
QC Batch Method:	RSK 175 Modified	Analysis Description:	RSK 175 HEADSPACE
Associated Lab Samples:	35338743001, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

METHOD BLANK:	2114222	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethane	ug/L	10.0 U	10.0	10.0	10/06/17 10:38	
Ethene	ug/L	10.0 U	10.0	10.0	10/06/17 10:38	
Methane	ug/L	10.0 U	10.0	10.0	10/06/17 10:38	

LABORATORY CONTROL SAMPLE & LCSD: 2114223			2114224							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	658	700	696	106	106	70-130	1	20	
Ethene	ug/L	1120	1040	1050	93	94	70-130	1	20	
Methane	ug/L	396	436	412	110	104	70-130	6	20	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	396661	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

METHOD BLANK:	2163901	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sodium	mg/L	0.50 U	1.0	0.50	10/05/17 21:25	

LABORATORY CONTROL SAMPLE: 2163902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	12.5	13.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2163903 2163904

Parameter	Units	35337707003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Sodium	mg/L	13.0	12.5	12.5	27.6	26.3	116	106	75-125	5	20	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	396104	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743006, 35338743009, 35338743010, 35338743012, 35338743013		

METHOD BLANK:	2160495	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743006, 35338743009, 35338743010, 35338743012, 35338743013		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	10/02/17 11:12	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	10/02/17 11:12	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	5.0	1.0	10/02/17 11:12	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
2-Hexanone	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
Acetone	ug/L	10.0 U	20.0	10.0	10/02/17 11:12	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
Benzene	ug/L	0.10 U	1.0	0.10	10/02/17 11:12	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	10/02/17 11:12	
Bromoform	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Bromomethane	ug/L	0.50 U	5.0	0.50	10/02/17 11:12	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Chloroethane	ug/L	0.50 U	10.0	0.50	10/02/17 11:12	
Chloroform	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Chloromethane	ug/L	0.62 U	1.0	0.62	10/02/17 11:12	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/02/17 11:12	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	10/02/17 11:12	
Dibromomethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Iodomethane	ug/L	0.50 U	10.0	0.50	10/02/17 11:12	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	10/02/17 11:12	
Styrene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Toluene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

METHOD BLANK: 2160495

Matrix: Water

Associated Lab Samples: 35338743001, 35338743002, 35338743003, 35338743004, 35338743006, 35338743009, 35338743010, 35338743012, 35338743013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/02/17 11:12	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	10/02/17 11:12	
Trichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	10/02/17 11:12	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	10/02/17 11:12	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	10/02/17 11:12	
1,2-Dichloroethane-d4 (S)	%	105	75-135		10/02/17 11:12	
4-Bromofluorobenzene (S)	%	91	89-111		10/02/17 11:12	
Toluene-d8 (S)	%	101	89-112		10/02/17 11:12	

LABORATORY CONTROL SAMPLE: 2160496

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.7	103	70-130	
1,1,1-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	22.1	111	70-130	
1,1,2-Trichloroethane	ug/L	20	22.7	114	70-130	
1,1-Dichloroethane	ug/L	20	20.0	100	70-130	
1,1-Dichloroethene	ug/L	20	17.8	89	65-134	
1,2,3-Trichloropropane	ug/L	20	19.4	97	65-135	
1,2-Dibromo-3-chloropropane	ug/L	20	22.0	110	62-133	
1,2-Dibromoethane (EDB)	ug/L	20	21.0	105	70-130	
1,2-Dichlorobenzene	ug/L	20	21.7	108	70-130	
1,2-Dichloroethane	ug/L	20	19.2	96	70-130	
1,2-Dichloropropane	ug/L	20	19.9	99	70-130	
1,4-Dichlorobenzene	ug/L	20	21.1	106	70-130	
2-Butanone (MEK)	ug/L	40	36.3	91	61-129	
2-Hexanone	ug/L	40	39.4	99	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	43.5	109	70-130	
Acetone	ug/L	40	33.8	85	44-155	
Acrylonitrile	ug/L	200	195	98	59-138	
Benzene	ug/L	20	20.3	102	70-130	
Bromochloromethane	ug/L	20	20.4	102	70-130	
Bromodichloromethane	ug/L	20	19.8	99	70-130	
Bromoform	ug/L	20	21.2	106	62-129	
Bromomethane	ug/L	20	17.7	89	10-179	
Carbon disulfide	ug/L	20	19.1	95	40-156	
Carbon tetrachloride	ug/L	20	19.3	97	66-127	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	20.1	101	57-142	
Chloroform	ug/L	20	19.6	98	70-130	
Chloromethane	ug/L	20	17.0	85	45-150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

LABORATORY CONTROL SAMPLE: 2160496

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	19.7	99	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.5	98	70-130	
Dibromochloromethane	ug/L	20	21.7	109	70-130	
Dibromomethane	ug/L	20	18.7	93	70-130	
Ethylbenzene	ug/L	20	21.0	105	70-130	
Iodomethane	ug/L	40	30.4	76	21-150	
Methylene Chloride	ug/L	20	17.7	88	65-127	
Styrene	ug/L	20	22.6	113	70-130	
Tetrachloroethene	ug/L	20	20.5	102	48-155	
Toluene	ug/L	20	20.7	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	68-126	
trans-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	16.5	82	46-138	
Trichloroethene	ug/L	20	20.9	105	69-129	
Trichlorofluoromethane	ug/L	20	20.2	101	60-144	
Vinyl acetate	ug/L	20	19.8	99	70-130	
Vinyl chloride	ug/L	20	20.3	102	67-136	
Xylene (Total)	ug/L	60	63.4	106	70-130	
1,2-Dichloroethane-d4 (S)	%			94	75-135	
4-Bromofluorobenzene (S)	%			98	89-111	
Toluene-d8 (S)	%			98	89-112	

MATRIX SPIKE SAMPLE: 2161384

Parameter	Units	35338743003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	20.9	105	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	20.3	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	22.7	113	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	22.5	112	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	19.7	98	70-130	
1,1-Dichloroethene	ug/L	11.2	20	28.0	84	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	25.6	128	65-135	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	20	19.8	99	62-133	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	0.50 U	20	20.5	102	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.1	91	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	19.2	96	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.1	101	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	33.0	83	61-129	
2-Hexanone	ug/L	5.0 U	40	39.5	99	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	37.2	93	70-130	
Acetone	ug/L	10.0 U	40	30.8	72	44-155	
Acrylonitrile	ug/L	5.0 U	200	167	83	59-138	
Benzene	ug/L	4.2	20	24.2	100	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.9	95	70-130	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

MATRIX SPIKE SAMPLE: 2161384		35338743003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromodichloromethane	ug/L	0.27 U	20	18.3	91	70-130	
Bromoform	ug/L	0.50 U	20	19.1	95	62-129	
Bromomethane	ug/L	0.50 U	20	12.9	64	10-179	
Carbon disulfide	ug/L	5.0 U	20	17.8	89	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	19.6	98	66-127	
Chlorobenzene	ug/L	3.0	20	23.6	103	70-130	
Chloroethane	ug/L	1.9 I	20	24.1	111	57-142	
Chloroform	ug/L	0.50 U	20	19.6	98	70-130	
Chloromethane	ug/L	0.62 U	20	18.7	93	45-150	
cis-1,2-Dichloroethene	ug/L	347	20	377	151	70-130 J(P6)	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	17.3	87	70-130	
Dibromochloromethane	ug/L	0.26 U	20	20.6	103	70-130	
Dibromomethane	ug/L	0.50 U	20	17.1	85	70-130	
Ethylbenzene	ug/L	0.50 U	20	21.0	103	70-130	
Iodomethane	ug/L	0.50 U	40	29.4	73	21-150	
Methylene Chloride	ug/L	2.5 U	20	16.6	83	65-127	
Styrene	ug/L	0.50 U	20	21.8	109	70-130	
Tetrachloroethene	ug/L	0.50 U	20	18.2	91	48-155	
Toluene	ug/L	10.4	20	31.0	103	70-130	
trans-1,2-Dichloroethene	ug/L	1.2	20	19.8	93	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	18.6	93	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	13.7	68	46-138	
Trichloroethene	ug/L	0.50 U	20	19.8	99	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	21.7	109	60-144	
Vinyl acetate	ug/L	1.0 U	20	17.5	88	70-130	
Vinyl chloride	ug/L	2580	20	2540	-225	67-136 J(P6)	
Xylene (Total)	ug/L	4.7	60	67.8	105	70-130	
1,2-Dichloroethane-d4 (S)	%				100	75-135	
4-Bromofluorobenzene (S)	%				94	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2161383

Parameter	Units	35338743002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	11.2	11.5	3	40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	1.0 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

SAMPLE DUPLICATE: 2161383

Parameter	Units	35338743002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	3.9	3.9	0	40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	2.9	3.0	4	40	
Chloroethane	ug/L	1.3 I	1.4 I		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	351	341	3	40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	9.3	9.9	6	40	
trans-1,2-Dichloroethene	ug/L	1.2	1.2	2	40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	2450	2470	1	40	
Xylene (Total)	ug/L	4.3	4.6	7	40	
1,2-Dichloroethane-d4 (S)	%	103	104	2	40	
4-Bromofluorobenzene (S)	%	91	89	2	40	
Toluene-d8 (S)	%	101	103	2	40	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch: 396251 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35338743005, 35338743007, 35338743008, 35338743011

METHOD BLANK: 2161402 Matrix: Water
Associated Lab Samples: 35338743005, 35338743007, 35338743008, 35338743011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	10/02/17 22:49	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	10/02/17 22:49	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
2-Hexanone	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
Acetone	ug/L	10.0 U	20.0	10.0	10/02/17 22:49	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
Benzene	ug/L	0.10 U	1.0	0.10	10/02/17 22:49	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	10/02/17 22:49	
Bromoform	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Bromomethane	ug/L	0.50 U	5.0	0.50	10/02/17 22:49	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Chloroethane	ug/L	0.50 U	10.0	0.50	10/02/17 22:49	
Chloroform	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Chloromethane	ug/L	0.62 U	1.0	0.62	10/02/17 22:49	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/02/17 22:49	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	10/02/17 22:49	
Dibromomethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Iodomethane	ug/L	0.50 U	10.0	0.50	10/02/17 22:49	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	10/02/17 22:49	
Styrene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Toluene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	10/02/17 22:49	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	10/02/17 22:49	
Trichloroethene	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

METHOD BLANK: 2161402

Matrix: Water

Associated Lab Samples: 35338743005, 35338743007, 35338743008, 35338743011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	10/02/17 22:49	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	10/02/17 22:49	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	10/02/17 22:49	
1,2-Dichloroethane-d4 (S)	%	110	75-135		10/02/17 22:49	
4-Bromofluorobenzene (S)	%	94	89-111		10/02/17 22:49	
Toluene-d8 (S)	%	103	89-112		10/02/17 22:49	

LABORATORY CONTROL SAMPLE & LCSD: 2161403

2162245

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.4	18.4	92	92	70-130	0	40	
1,1,1-Trichloroethane	ug/L	20	18.8	18.8	94	94	70-130	0	40	
1,1,2,2-Tetrachloroethane	ug/L	20	16.8	20.2	84	101	70-130	19	40	
1,1,2-Trichloroethane	ug/L	20	18.4	19.4	92	97	70-130	5	40	
1,1-Dichloroethane	ug/L	20	19.9	19.5	99	97	70-130	2	40	
1,1-Dichloroethene	ug/L	20	18.0	17.8	90	89	65-134	1	40	
1,2,3-Trichloropropane	ug/L	20	17.0	20.9	85	105	65-135	21	40	
1,2-Dichlorobenzene	ug/L	20	21.0	21.2	105	106	70-130	1	40	
1,2-Dichloroethane	ug/L	20	17.6	18.1	88	91	70-130	3	40	
1,2-Dichloropropane	ug/L	20	19.4	19.6	97	98	70-130	1	40	
1,4-Dichlorobenzene	ug/L	20	21.2	21.1	106	105	70-130	1	40	
2-Butanone (MEK)	ug/L	40	21.6	32.3	54	81	61-129	40	40	J(L2)
2-Hexanone	ug/L	40	24.6	39.0	62	97	68-131	45	40	J(L2),J(R1)
4-Methyl-2-pentanone (MIBK)	ug/L	40	29.0	40.4	72	101	70-130	33	40	
Acetone	ug/L	40	26.1	39.2	65	98	44-155	40	40	
Acrylonitrile	ug/L	200	153	194	77	97	59-138	23	40	
Benzene	ug/L	20	19.8	19.6	99	98	70-130	1	40	
Bromochloromethane	ug/L	20	18.8	18.9	94	94	70-130	0	40	
Bromodichloromethane	ug/L	20	18.8	18.6	94	93	70-130	1	40	
Bromoform	ug/L	20	17.2	18.8	86	94	62-129	9	40	
Bromomethane	ug/L	20	15.0	14.1	75	70	10-179	6	40	
Carbon disulfide	ug/L	20	20.6	19.7	103	99	40-156	5	40	
Carbon tetrachloride	ug/L	20	17.2	17.2	86	86	66-127	0	40	
Chlorobenzene	ug/L	20	19.4	19.0	97	95	70-130	2	40	
Chloroethane	ug/L	20	21.0	19.8	105	99	57-142	6	40	
Chloroform	ug/L	20	19.3	19.0	97	95	70-130	2	40	
Chloromethane	ug/L	20	17.3	17.4	86	87	45-150	1	40	
cis-1,2-Dichloroethene	ug/L	20	19.4	19.4	97	97	70-130	0	40	
cis-1,3-Dichloropropene	ug/L	20	17.4	17.8	87	89	70-130	2	40	
Dibromochloromethane	ug/L	20	16.9	17.7	85	88	70-130	4	40	
Dibromomethane	ug/L	20	17.2	17.9	86	90	70-130	4	40	
Ethylbenzene	ug/L	20	20.9	20.8	105	104	70-130	0	40	
Iodomethane	ug/L	40	29.8	30.0	75	75	21-150	1	40	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

LABORATORY CONTROL SAMPLE & LCSD: 2161403			2162245							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methylene Chloride	ug/L	20	20.4	18.2	102	91	65-127	11	40	
Styrene	ug/L	20	19.4	19.4	97	97	70-130	0	40	
Tetrachloroethene	ug/L	20	17.4	17.8	87	89	48-155	2	40	
Toluene	ug/L	20	19.1	18.9	96	95	70-130	1	40	
trans-1,2-Dichloroethene	ug/L	20	18.4	18.6	92	93	68-126	1	40	
trans-1,3-Dichloropropene	ug/L	20	17.0	18.0	85	90	70-130	6	40	
trans-1,4-Dichloro-2-butene	ug/L	20	15.4	18.1	77	90	46-138	16	40	
Trichloroethene	ug/L	20	18.5	18.4	92	92	69-129	0	40	
Trichlorofluoromethane	ug/L	20	18.2	17.5	91	87	60-144	4	40	
Vinyl acetate	ug/L	20	16.8	19.6	84	98	70-130	15	40	
Vinyl chloride	ug/L	20	18.0	17.9	90	90	67-136	1	40	
Xylene (Total)	ug/L	60	63.5	62.8	106	105	70-130	1	40	
1,2-Dichloroethane-d4 (S)	%				102	102	75-135		40	
4-Bromofluorobenzene (S)	%				98	97	89-111		40	
Toluene-d8 (S)	%				99	101	89-112		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	395878	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

METHOD BLANK:	2158867	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	10/03/17 05:53	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	10/03/17 05:53	

LABORATORY CONTROL SAMPLE: 2158868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.19	76	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.17	69	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2160636 2160637

Parameter	Units	35338443005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0065 U	.44	.44	0.70	0.60	159	138	60-140	14	40	J(M1)
1,2-Dibromoethane (EDB)	ug/L	0.0076 U	.44	.44	0.60	0.55	138	125	60-140	10	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	397752	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

METHOD BLANK:	2170727	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Carbon Dioxide, Free	mg/L	0.023			10/10/17 16:07	

SAMPLE DUPLICATE: 2170729

Parameter	Units	35338349001 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon Dioxide, Free	mg/L	1.7	1.7	1		

SAMPLE DUPLICATE: 2170730

Parameter	Units	35338743007 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon Dioxide, Free	mg/L	2.9	2.9	0		

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch:	396019	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

METHOD BLANK:	2160157	Matrix:	Water
Associated Lab Samples:	35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	10/02/17 06:23	
Sulfate	mg/L	2.5 U	5.0	2.5	10/02/17 06:23	

LABORATORY CONTROL SAMPLE: 2160158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.5	93	90-110	
Sulfate	mg/L	50	45.9	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2160159 2160160

Parameter	Units	35338743002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	112	250	250	349	353	95	96	90-110	1	20	
Sulfate	mg/L	36.9	250	250	258	259	88	89	90-110	1	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2160161 2160162

Parameter	Units	35338808001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	21.2	50	50	70.5	70.2	99	98	90-110	0	20	
Sulfate	mg/L	4.1 I	50	50	48.6	48.4	89	88	90-110	0	20	J(M1)

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch: 396630 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35338743008, 35338743009, 35338743010, 35338743011

METHOD BLANK: 2163755 Matrix: Water
Associated Lab Samples: 35338743008, 35338743009, 35338743010, 35338743011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	10/04/17 06:03	
Sulfate	mg/L	2.5 U	5.0	2.5	10/04/17 06:03	

LABORATORY CONTROL SAMPLE: 2163756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.3	95	90-110	
Sulfate	mg/L	50	46.7	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2163757 2163758

Parameter	Units	35338743011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	104	50	50	159	159	109	109	90-110	0	20	L
Sulfate	mg/L	2.5 U	50	50	47.3	47.4	92	92	90-110	0	20	

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QUALITY CONTROL DATA

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

QC Batch: 395921 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012

METHOD BLANK: 2159303 Matrix: Water
Associated Lab Samples: 35338743001, 35338743002, 35338743003, 35338743004, 35338743005, 35338743006, 35338743007, 35338743008, 35338743009, 35338743010, 35338743011, 35338743012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	09/30/17 09:01	

SAMPLE DUPLICATE: 2159305

Parameter	Units	35338711003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 2159307

Parameter	Units	35338743008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Tomoka LF B5 Remediation
Pace Project No.: 35338743

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte
PASI-O Pace Analytical Services - Ormond Beach

BATCH QUALIFIERS

Batch: 396251
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U Compound was analyzed for but not detected.
J(HS) Estimated Value. Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
J(L2) Estimated Value. Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(P6) Estimated Value. Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
J(R1) Estimated Value. RPD value was outside control limits.
J(S0) Estimated Value. Surrogate recovery outside laboratory control limits.
L Off-scale high. Actual value is known to be greater than value given.
P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35338743002	TMW 1A				
35338743003	TMW 1A Dup				
35338743004	TMW 1B				
35338743005	TMW 2A				
35338743006	TMW 2B				
35338743007	MW 100-6				
35338743008	B5-28				
35338743009	TMW 3B				
35338743010	TMW 3A				
35338743011	TMW 5B				
35338743012	TMW 4B				
35338743001	Equipment Blank 9/29/17	EPA 8011	395878	EPA 8011	396226
35338743002	TMW 1A	EPA 8011	395878	EPA 8011	396226
35338743003	TMW 1A Dup	EPA 8011	395878	EPA 8011	396226
35338743004	TMW 1B	EPA 8011	395878	EPA 8011	396226
35338743005	TMW 2A	EPA 8011	395878	EPA 8011	396226
35338743006	TMW 2B	EPA 8011	395878	EPA 8011	396226
35338743007	MW 100-6	EPA 8011	395878	EPA 8011	396226
35338743008	B5-28	EPA 8011	395878	EPA 8011	396226
35338743009	TMW 3B	EPA 8011	395878	EPA 8011	396226
35338743010	TMW 3A	EPA 8011	395878	EPA 8011	396226
35338743011	TMW 5B	EPA 8011	395878	EPA 8011	396226
35338743012	TMW 4B	EPA 8011	395878	EPA 8011	396226
35338743001	Equipment Blank 9/29/17	RSK 175 Modified	381517		
35338743002	TMW 1A	RSK 175 Modified	381026		
35338743003	TMW 1A Dup	RSK 175 Modified	381517		
35338743004	TMW 1B	RSK 175 Modified	381517		
35338743005	TMW 2A	RSK 175 Modified	381517		
35338743006	TMW 2B	RSK 175 Modified	381517		
35338743007	MW 100-6	RSK 175 Modified	381517		
35338743008	B5-28	RSK 175 Modified	381517		
35338743009	TMW 3B	RSK 175 Modified	381517		
35338743010	TMW 3A	RSK 175 Modified	381517		
35338743011	TMW 5B	RSK 175 Modified	381517		
35338743012	TMW 4B	RSK 175 Modified	381517		
35338743001	Equipment Blank 9/29/17	EPA 3010	396661	EPA 6010	396725
35338743002	TMW 1A	EPA 3010	396661	EPA 6010	396725
35338743003	TMW 1A Dup	EPA 3010	396661	EPA 6010	396725
35338743004	TMW 1B	EPA 3010	396661	EPA 6010	396725
35338743005	TMW 2A	EPA 3010	396661	EPA 6010	396725
35338743006	TMW 2B	EPA 3010	396661	EPA 6010	396725
35338743007	MW 100-6	EPA 3010	396661	EPA 6010	396725
35338743008	B5-28	EPA 3010	396661	EPA 6010	396725
35338743009	TMW 3B	EPA 3010	396661	EPA 6010	396725
35338743010	TMW 3A	EPA 3010	396661	EPA 6010	396725
35338743011	TMW 5B	EPA 3010	396661	EPA 6010	396725

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35338743012	TMW 4B	EPA 3010	396661	EPA 6010	396725
35338743001	Equipment Blank 9/29/17	EPA 8260	396104		
35338743002	TMW 1A	EPA 8260	396104		
35338743003	TMW 1A Dup	EPA 8260	396104		
35338743004	TMW 1B	EPA 8260	396104		
35338743005	TMW 2A	EPA 8260	396251		
35338743006	TMW 2B	EPA 8260	396104		
35338743007	MW 100-6	EPA 8260	396251		
35338743008	B5-28	EPA 8260	396251		
35338743009	TMW 3B	EPA 8260	396104		
35338743010	TMW 3A	EPA 8260	396104		
35338743011	TMW 5B	EPA 8260	396251		
35338743012	TMW 4B	EPA 8260	396104		
35338743013	Trip Blank 9/29/17	EPA 8260	396104		
35338743001	Equipment Blank 9/29/17	SM 2320B	397752		
35338743002	TMW 1A	SM 2320B	397752		
35338743003	TMW 1A Dup	SM 2320B	397752		
35338743004	TMW 1B	SM 2320B	397752		
35338743005	TMW 2A	SM 2320B	397752		
35338743006	TMW 2B	SM 2320B	397752		
35338743007	MW 100-6	SM 2320B	397752		
35338743008	B5-28	SM 2320B	397752		
35338743009	TMW 3B	SM 2320B	397752		
35338743010	TMW 3A	SM 2320B	397752		
35338743011	TMW 5B	SM 2320B	397752		
35338743012	TMW 4B	SM 2320B	397752		
35338743001	Equipment Blank 9/29/17	EPA 300.0	396019		
35338743002	TMW 1A	EPA 300.0	396019		
35338743003	TMW 1A Dup	EPA 300.0	396019		
35338743004	TMW 1B	EPA 300.0	396019		
35338743005	TMW 2A	EPA 300.0	396019		
35338743006	TMW 2B	EPA 300.0	396019		
35338743007	MW 100-6	EPA 300.0	396019		
35338743008	B5-28	EPA 300.0	396019		
35338743008	B5-28	EPA 300.0	396630		
35338743009	TMW 3B	EPA 300.0	396019		
35338743009	TMW 3B	EPA 300.0	396630		
35338743010	TMW 3A	EPA 300.0	396019		
35338743010	TMW 3A	EPA 300.0	396630		
35338743011	TMW 5B	EPA 300.0	396019		
35338743011	TMW 5B	EPA 300.0	396630		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF B5 Remediation

Pace Project No.: 35338743

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35338743012	TMW 4B	EPA 300.0	396019		
35338743001	Equipment Blank 9/29/17	EPA 353.2	395921		
35338743002	TMW 1A	EPA 353.2	395921		
35338743003	TMW 1A Dup	EPA 353.2	395921		
35338743004	TMW 1B	EPA 353.2	395921		
35338743005	TMW 2A	EPA 353.2	395921		
35338743006	TMW 2B	EPA 353.2	395921		
35338743007	MW 100-6	EPA 353.2	395921		
35338743008	B5-28	EPA 353.2	395921		
35338743009	TMW 3B	EPA 353.2	395921		
35338743010	TMW 3A	EPA 353.2	395921		
35338743011	TMW 5B	EPA 353.2	395921		
35338743012	TMW 4B	EPA 353.2	395921		

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WO#: 35338743



35338743

Y / Analytical Request Document

L DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A

Required Client Information: Company: Volusia County Solid Waste Management
Address: 1990 Tomoka Farms Road
Daytona Beach, FL 32124
Email:
Phone:
Requested Due Date:

Report To: Ms. Jennifer Stirk
Copy To:
Purchase Order #:
Project Name: Tomoka LF BS Remediation
Project #:

Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: jeff.baylor@pacelabs.com,
Pace Profile #: 1721

Regulatory Agency	
State / Location	

ITEM #	MATRIX CODE Drinking Water Waste Water Product Soil/Solid Oil Wine Air Other Tissue	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test Y/N	Requested Analysis Filtered (Y/N)											
				START	END			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other												
1	Blank	WT	S	9/27/17	0750		13																			
2	TMW 1A				0844																					
3	TMW 1A/Duplicate				0844																					
4	TMW 1B				0847																					
5	TMW 2A				1050																					
6	TMW 2B				1151																					
7	MW 100-6				1361																					
8	B5-28				1347																					
9	TMW 3B				1443																					
10	TMW 3A				1532																					
11	TMW 5B				1632																					
12	TMW 4B				1732																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
2 SETS TRIP BLANKS	ACD		9/27/17		17:15		J299		9/29/17		18:10		1,2	
	MFL/pace		9-29-17		1210		J299						4	
													2	
													7	

TEMP in C		Received on	Custody	Sealed	Cooler	Samples
			(Y/N)	(Y/N)	(Y/N)	(Y/N)
DATE Signed 9-29-17		SIGNATURE of SAMPLER: MFL/pace				
DATE Signed 9-29-17		PRINT Name of SAMPLER: MFL/pace				
SIGNATURE of SAMPLER: MFL/pace		SAMPLER NAME AND SIGNATURE				

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUNTEER SOLID WASTE		SITE LOCATION: RONKA LF	
WELL NO: EQUIPMENT BLANK	SAMPLE ID: EQUIPMENT BLANK	DATE: 9-29-17	

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT:		SAMPLING ENDED AT:		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N (replaced)							DUPLICATE: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	1	HDPE	250	ICE			NO3, SO4, ALK, CL		APP		400
	1	HDPE	250	HNO3			METALS		|		|
	3	AG	40	HCL			BZEO		|		|
	2	CG	↓	ICE			DO II		|		|
	2	CG	↓	ICE			RSK		|		|
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>DAKOTA COUNTY SOLID WASTE</u>		SITE LOCATION: <u>TOMKA LF</u>	
WELL NO: <u>TMW 1A</u>	SAMPLE ID: <u>TMW 1A / DUPLICATE</u>	DATE: <u>9-29-17</u>	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1 1/2	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	310	PURGE PUMP TYPE OR BAILER:	PP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (33.80 feet - 3.10 feet) X 0.16 gallons/foot = 9.912 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME									
(only fill out if applicable)									
	=	gallons	+	(	gallons/foot	X	feet	+	gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12	PURGING INITIATED AT: 0807	PURGING ENDED AT: 0844	TOTAL VOLUME PURGED (gallons): 8.51
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[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Mark Carabet / Mace	SAMPLER(S) SIGNATURE(S): [Signature]	SAMPLING INITIATED AT: 0844	SAMPLING ENDED AT: 0855
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PUMP OR TUBING DEPTH IN WELL (feet): 12	TUBING MATERIAL CODE: HOPE.5	FIELD-FILTERED: Y <u>N</u> Filtration Equipment Type:	FILTER SIZE: _____ μ m
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FIELD DECONTAMINATION:	PUMP	Y	(N)	TUBING	Y	(N (replaced))	DUPLICATE:	(Y)	N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	HDPE	250	ICE		6.52	NO ₃ , SO ₄ , ALK, CL	APP	400
	1	HDPE	250	HNO ₃		<2	METALS	|	|
	3	AG	40	HCL		<2	B260		
	2	CG	↓	ICE		6.52	B011	|	|
	2	CG	↓	ICE		6.52	R5K		

REMARKS

00P-85.1 00P-96.2 00P-103.0 00P-106.1

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: POLUSIA COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: TMW1B	SAMPLE ID: TMW1B		DATE: 9-29-15

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	2.95	PURGE PUMP TYPE OR BAILER:	PP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (44.57 feet - 7.95 feet) X 0.16 gallons/foot = 5.8592 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12	PURGING INITIATED AT: 0903	PURGING ENDED AT: 0944	TOTAL VOLUME PURGED (gallons): 8.80
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[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARCO GILBERT / PACE	SAMPLER(S) SIGNATURE(S): [Signature]	SAMPLING INITIATED AT: 0947	SAMPLING ENDED AT: 0955
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PUMP OR TUBING DEPTH IN WELL (feet): 12	TUBING MATERIAL CODE: HDPE, 5	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ μm
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FIELD DECONTAMINATION:	PUMP	Y	(N)	TUBING	Y	(N (replaced))	DUPLICATE:	Y	(N)
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	HDPE	250	ICP		6.31	NO ₃ , EL, SO ₄ , ALK	APP	~400
	1	HDPE	250	HNO ₃		~2	METALS		
	3	AG	40	HCL		~2	BZCO		
	2	CG	1	ICP		6.31	VOIS		
	2	CG	1	ICP		6.31	RSK		

REMARKS:

OSP-71.8 OSP-73.7 OSP-55.4

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUGA CANNY SOUND ASTO		SITE LOCATION: TOMONA LF	
WELL NO: TMW 2A	SAMPLE ID: TMW 2A		DATE: 9-29-17

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK GILBERT / PACE				SAMPLER(S) SIGNATURE(S): <i>msl</i>			SAMPLING INITIATED AT: 1058		SAMPLING ENDED AT: 1103	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: HOPO, S			FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced))							DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	HOPE	250	ICE		6.30	NO ₃ , SO ₄ , NH ₄ CL	APP	400	
	1	HOPE	250	HNO ₃		<2	metals	|	|	
	3	AG	40	HCL		<2	8260	|	|	
	2	CG	1	ICE		6.30	2011	|	|	
	2	CG	1	ICE		6.30	RSK	|	|	

REMARKS:

02P-87.4 02P-90.1 02P-92.0

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLusia COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: TMW 2B	SAMPLE ID: TMW 2B		DATE: 9-29-17

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	8.25	PURGE PUMP TYPE OR BAILER:	pp
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (44.45 feet - 8.25 feet) X 0.16 gallons/foot = 5.792 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons


INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 1108	PURGING ENDED AT: 1151	TOTAL VOLUME PURGED (gallons): 8.60
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[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.014

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK SILBERT / PACE	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 1151	SAMPLING ENDED AT: 1156
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PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE.5	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — μm
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FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	HDPE	250	ICE		6.48	NH ₃ , SO ₄ , ALK, CL	APP	400
	1	HDPE	250	HNO ₃		<2	METALS	|	|
	3	AG	40	HCL		<2	8260	|	|
	2	CG	1	ICE		6.48	DON	|	|
	2	CG	1	ICE		6.48	RSK	|	|

REMARKS:

ORP -74.4 ORP -73.0 ORP -71.9

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); Q = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2) optionally, $+0.2$ mg/L or $+10\%$ (whichever is greater) Turbidity: all readings < 20 NTU; optionally $+5$ NTU or $+10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUNTEER COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: MW 100-6	SAMPLE ID: MW 100-6		DATE: 9-29-17

PURGING DATA

WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 1/4		WELL SCREEN INTERVAL DEPTH: feet to feet		STATIC DEPTH TO WATER (feet): 8.75		PURGE PUMP TYPE OR BAILER: PP			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (52.95 feet - 8.75 feet) X 0.16 gallons/foot = 2.072 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12		FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12		PURGING INITIATED AT: 1207		PURGING ENDED AT: 1301		TOTAL VOLUME PURGED (gallons): 10.80			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1243	7.20	7.20	0.20	9.27	6.38	23.9	705	0.07	14.98	yellow	Sulfur
1252	1.80	9.00	0.20	9.27	6.43	23.8	713	0.06	6.43	1	1
1301	1.80	10.80	0.20	9.27	6.45	23.9	716	0.07	7.60		
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor, BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK GIBSON / PACE				SAMPLER(S) SIGNATURE(S): [Signature]			SAMPLING INITIATED AT: 1301		SAMPLING ENDED AT: 1305	
PUMP OR TUBING DEPTH IN WELL (feet): 12				TUBING MATERIAL CODE: HOPE-5			FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced)							DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	HOPE	250	ICE		6.45	ANALYSIS	APP	400	
	1	HOPE	250	HNO3		<2	METALS			
	3	AG	40	HCL		<2	B260			
	2	CG	1	ICE		6.45	B011			
	2	CG	1	ICE		6.45	RSK			

REMARKS:

00P - 45.5 00P - 54.3 00P - 58.4

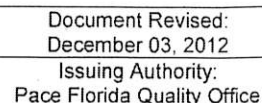
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2) optionally, $+ 0.2$ mg/L or $+ 10\%$ (whichever is greater) Turbidity: all readings < 20 NTU; optionally $+ 5$ NTU or $+ 10\%$ (whichever is greater)



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Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUNTEER COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: TMW 4B	SAMPLE ID: TMW 4B		DATE: 9-29-17

PURGING DATA

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK GILBERT / PACE				SAMPLER(S) SIGNATURE(S): <i>msl</i>			SAMPLING INITIATED AT: 1732		SAMPLING ENDED AT: 1738	
PUMP OR TUBING DEPTH IN WELL (feet): 16				TUBING MATERIAL CODE: HOPE, S			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> (replaced)							DUPLICATE: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	HOPE	250	ICE		6.53	NO3, SO4, CL, NH4	APP	400	
	1	HOPE	250	HNO3		5.2	metals			
	3	AG	40	HCL		5.2	8260			
	2	CG	1	ICE		6.53	2011			
	2	CG	1	ICE		6.53	254			

REMARKS:

OLD-90.7 OLD-89.9 OLD-88.4

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally $+ 5$ NTU or $+ 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUNTA COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LA	
WELL NO: B S. 28		SAMPLE ID: BS-28	DATE: 4-29-17

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	2.20	PURGE PUMP TYPE OR BAILER:	PP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= 29.40 feet - 2.20 feet X 0.16 gallons/foot = 4.352 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME									
(only fill out if applicable)									
	=	gallons	+	(	gallons/foot	X	feet	+	gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1315	PURGING ENDED AT: 1347	TOTAL VOLUME PURGED (gallons): 640
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[illegible]

WELL CAPACITY (Gallons Per Foot): **0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88**
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016**

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK CILBERT / PACF	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 1347	SAMPLING ENDED AT: 1351
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PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE 5	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ µm
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FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml. per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	HDPE	250	ICE		6.56	NO3/NO4 ALK, CL	APP	400
	1	HDPE	250	HNO3		<2	metals	|	|
	3	AG	40	HCL		<2	8260		
	2	CG	1	ICB		6.56	8011	|	|
	2	CG	1	ICE		6.56	RSK		

REMARKS:

ORP -114.4 ORP -112.9 ORP -112.7

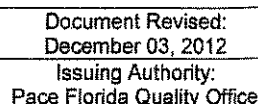
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)



Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: VOLUNTA COUNTY SOLID WASTE		SITE LOCATION: TOMOKA LF	
WELL NO: TMW 3A	SAMPLE ID: TMW 3A		DATE: 9-28-17

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	4.15	PURGE PUMP TYPE OR BAILER:	PP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= 34.60 feet - 4.15 feet X 0.16 gallons/foot = 4.872 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME									
(only fill out if applicable)									
	=	gallons	+	(	gallons/foot	X	feet)	+	gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1455	PURGING ENDED AT: 1532	TOTAL VOLUME PURGED (gallons): 740
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[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARCO RUBIO PACE	SAMPLER(S) SIGNATURE(S): [Signature]	SAMPLING INITIATED AT: 1532	SAMPLING ENDED AT: 1536
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PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE.5	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ µm
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FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	N (replaced)	DUPLICATE:	Y	N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	HDPE	250	ICE		6.23	NO ₃ , CL, SO ₄ , ALK	APP	400
	1	HDPE	250	HA03		<2	metals	|	|
	3	AG	40	HCL		<2	B260	|	|
	2	CG	↓	ICE		6.23	B011	|	|
	2	CG	↓	ICE		6.27	RSK		

REMARKS:

OSP-68.6 OSP-69.9 OSP-70.4

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: + 0.2 units Temperature: + 0.2 °C Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-21) optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 12

Document Revised:
August 2, 2017
Issuing Authority:
Pace Florida Quality Office

WO#: 35338743

(SCUR)

Project # PM: JSB Due Date: 10/16/17
Project Manager: CLIENT: VOLDPW
Client:

Date and Initials of person:

Examining contents: JS

Label: JS

Deliver: JS

pH: 7.0

Thermometer Used: T-299

Date: 9/29/17

Time: 1830 Initials: IDH

State of Origin: FL

Cooler #1 Temp. °C 0.4 (Visual) +0.1 (Correction Factor) 0.5 (Actual)

Cooler #2 Temp. °C 1.1 (Visual) (Correction Factor) 1.2 (Actual)

Cooler #3 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #4 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. °C (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Preservation Information:</p> <p>Preservative: _____</p> <p>Lot #/Trace #: _____</p> <p>Date: _____ Time: _____</p> <p>Initials: _____</p>
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sufficient Volume	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments):

Headspace found in all three 8260's for sample 009
Headspace found in 2 of 2 8260's for sample 001010

Project Manager Review: _____

Date: _____