

November 17, 2016

Bob Bennett
Manatee County
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Road Landfill SW
Pace Project No.: 35272241

Dear Bob Bennett:

Enclosed are the analytical results for sample(s) received by the laboratory on October 24, 2016. 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.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,



Lori Palmer
lori.palmer@pacelabs.com
Project Manager

Enclosures

cc: Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Lena Road Landfill SW

Pace Project No.: 35272241

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 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

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35272241001	SW-1	Water	10/24/16 11:30	10/24/16 17:00
35272241002	SW-2	Water	10/24/16 12:30	10/24/16 17:00
35272241003	SW-1 Dup	Water	10/24/16 11:30	10/24/16 17:00
35272241004	Field Blank	Water	10/24/16 12:15	10/24/16 17:00
35272241005	SW-1 LL Hg Blank	Water	10/24/16 11:30	10/24/16 17:00
35272241006	SW-2 LL Hg Blank	Water	10/24/16 12:30	10/24/16 17:00
35272241007	Dup LL Hg Blank	Water	10/24/16 11:30	10/24/16 17:00
35272241008	Field Blank LL Hg Blank	Water	10/24/16 12:15	10/24/16 17:00
35272241009	Trip Blank	Water	10/24/16 11:30	10/24/16 17:00

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35272241001	SW-1	EPA 1631E	LMS	1	PASI-G
		EPA 8011	LJM	2	PASI-O
		EPA 6010	CKJ	13	PASI-O
		EPA 6020	KMW	6	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	ALD	1	PASI-O
		SM 2540D	ALD	1	PASI-O
		SM 5210B	CMB	1	PASI-O
		SM10200	JDW	5	PASI-O
		TKN+NOx Calculation	TLK	1	PASI-O
		EPA 351.2	RT1	1	PASI-O
		EPA 353.2	JAM	2	PASI-O
		EPA 365.4	RT1	1	PASI-O
		EPA 410.4	TDH	1	PASI-O
		SM 5310B	AEM	1	PASI-O
35272241002	SW-2	EPA 1631E	LMS	1	PASI-G
		EPA 8011	LJM	2	PASI-O
		EPA 6010	CKJ	13	PASI-O
		EPA 6020	KMW	6	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	ALD	1	PASI-O
		SM 2540D	ALD	1	PASI-O
		SM 5210B	CMB	1	PASI-O
		SM10200	JDW	5	PASI-O
		TKN+NOx Calculation	TLK	1	PASI-O
		EPA 351.2	RT1	1	PASI-O
		EPA 353.2	JAM	2	PASI-O
		EPA 365.4	RT1	1	PASI-O
35272241003	SW-1 Dup	EPA 410.4	TDH	1	PASI-O
		SM 5310B	AEM	1	PASI-O
		EPA 1631E	LMS	1	PASI-G
		EPA 8011	LJM	2	PASI-O
		EPA 6010	CKJ	13	PASI-O
		EPA 6020	KMW	6	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	ALD	1	PASI-O
		SM 2540D	ALD	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35272241004	Field Blank	SM 5210B	CMB	1	PASI-O
		SM10200	JDW	5	PASI-O
		TKN+NOx Calculation	TLK	1	PASI-O
		EPA 351.2	RT1	1	PASI-O
		EPA 353.2	JAM	2	PASI-O
		EPA 365.4	RT1	1	PASI-O
		EPA 410.4	TDH	1	PASI-O
		SM 5310B	AEM	1	PASI-O
		EPA 1631E	LMS	1	PASI-G
		EPA 8011	LJM	2	PASI-O
		EPA 6010	CKJ	13	PASI-O
		EPA 6020	KMW	6	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	ALD	1	PASI-O
		SM 2540D	ALD	1	PASI-O
		SM 5210B	CMB	1	PASI-O
		SM10200	JDW	5	PASI-O
		TKN+NOx Calculation	TLK	1	PASI-O
		EPA 351.2	RT1	1	PASI-O
		EPA 353.2	JAM	2	PASI-O
		EPA 365.4	RT1	1	PASI-O
		EPA 410.4	TDH	1	PASI-O
		SM 5310B	AEM	1	PASI-O
35272241005	SW-1 LL Hg Blank	EPA 1631E	LMS	1	PASI-G
35272241006	SW-2 LL Hg Blank	EPA 1631E	LMS	1	PASI-G
35272241007	Dup LL Hg Blank	EPA 1631E	LMS	1	PASI-G
35272241008	Field Blank LL Hg Blank	EPA 1631E	LMS	1	PASI-G
35272241009	Trip Blank	EPA 8260	SK1	48	PASI-O

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35272241

Sample: SW-1 Lab ID: 35272241001 Collected: 10/24/16 11:30 Received: 10/24/16 17:00 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level Analytical Method: EPA 1631E Preparation Method: EPA 1631E									
Mercury	0.00168	ug/L	0.00050	0.00020	1	11/04/16 08:45	11/07/16 09:40	7439-97-6	
Field Data Analytical Method:									
Field pH	7.57	Std. Units			1		10/24/16 11:30		
Field Temperature	21.96	deg C			1		10/24/16 11:30		
Field Specific Conductance	452	umhos/cm			1		10/24/16 11:30		
Oxygen, Dissolved	8.40	mg/L			1		10/24/16 11:30	7782-44-7	
Turbidity	3.60	NTU			1		10/24/16 11:30		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0048 U	ug/L	0.020	0.0048	1	10/27/16 15:00	10/28/16 05:56	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0098	0.0074	1	10/27/16 15:00	10/28/16 05:56	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	12.2	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:14	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	10/31/16 16:14	7440-41-7	
Cadmium	2.0	ug/L	1.0	0.50	1	10/30/16 22:48	10/31/16 16:14	7440-43-9	
Calcium	33500	ug/L	500	250	1	10/30/16 22:48	10/31/16 16:14	7440-70-2	
Chromium	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:14	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:14	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:14	7440-50-8	
Iron	1170	ug/L	40.0	20.0	1	10/30/16 22:48	10/31/16 16:14	7439-89-6	
Magnesium	11100	ug/L	500	250	1	10/30/16 22:48	10/31/16 16:14	7439-95-4	
Nickel	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:14	7440-02-0	
Tot Hardness asCaCO3 (SM 2340B	129000	ug/L	3210	1600	1	10/30/16 22:48	10/31/16 16:14		
Vanadium	5.0 U	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:14	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	10/30/16 22:48	10/31/16 16:14	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:17	7440-36-0	
Arsenic	2.6	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:17	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:17	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:17	7782-49-2	
Silver	0.050 U	ug/L	0.10	0.050	1	10/30/16 22:48	11/01/16 11:17	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:17	7440-28-0	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		11/03/16 11:23	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:23	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/03/16 11:23	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/03/16 11:23	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/03/16 11:23	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35272241

Sample: SW-1 **Lab ID: 35272241001** Collected: 10/24/16 11:30 Received: 10/24/16 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:23	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:23	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/03/16 11:23	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/03/16 11:23	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		11/03/16 11:23	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:23	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/03/16 11:23	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/03/16 11:23	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:23	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/03/16 11:23	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/03/16 11:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:23	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/03/16 11:23	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		11/03/16 11:23	96-18-4	
Vinyl acetate	1.0 U	ug/L	2.0	1.0	1		11/03/16 11:23	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:23	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/03/16 11:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	89-111		1		11/03/16 11:23	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	75-135		1		11/03/16 11:23	17060-07-0	
Toluene-d8 (S)	108	%	89-112		1		11/03/16 11:23	2037-26-5	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	289	mg/L	5.0	5.0	1		10/26/16 10:31		

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35272241

Sample: SW-1		Lab ID: 35272241001		Collected: 10/24/16 11:30		Received: 10/24/16 17:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	2.4	mg/L	1.0	1.0	1		10/27/16 15:28		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	10/25/16 14:32	10/30/16 16:44		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll b	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll c	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll a (Corrected)	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Pheophytin	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	0.98	mg/L	0.50	0.086	1		11/01/16 17:37		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	0.79	mg/L	0.50	0.086	1	10/31/16 08:17	11/01/16 10:53	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.19	mg/L	0.050	0.025	1		10/25/16 10:19		
Nitrogen, NO2 plus NO3	0.19	mg/L	0.050	0.025	1		10/25/16 10:19		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	0.27	mg/L	0.10	0.050	1	10/31/16 08:17	11/01/16 10:53	7723-14-0	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	65.7	mg/L	20.0	12.5	1		10/27/16 11:33		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	21.6	mg/L	1.0	0.50	1		11/03/16 22:11	7440-44-0	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35272241

Sample: SW-2 Lab ID: 35272241002 Collected: 10/24/16 12:30 Received: 10/24/16 17:00 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level Analytical Method: EPA 1631E Preparation Method: EPA 1631E									
Mercury	0.00236	ug/L	0.00050	0.00020	1	11/04/16 08:45	11/07/16 09:53	7439-97-6	
Field Data Analytical Method:									
Field pH	6.87	Std. Units			1		10/24/16 12:30		
Field Temperature	23.44	deg C			1		10/24/16 12:30		
Field Specific Conductance	733	umhos/cm			1		10/24/16 12:30		
Oxygen, Dissolved	1.80	mg/L			1		10/24/16 12:30	7782-44-7	
Turbidity	4.01	NTU			1		10/24/16 12:30		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0048 U	ug/L	0.020	0.0048	1	10/27/16 15:00	10/28/16 06:11	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0098	0.0074	1	10/27/16 15:00	10/28/16 06:11	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	27.2	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:18	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	10/31/16 16:18	7440-41-7	
Cadmium	2.7	ug/L	1.0	0.50	1	10/30/16 22:48	10/31/16 16:18	7440-43-9	
Calcium	42300	ug/L	500	250	1	10/30/16 22:48	10/31/16 16:18	7440-70-2	
Chromium	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:18	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:18	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:18	7440-50-8	
Iron	10200	ug/L	40.0	20.0	1	10/30/16 22:48	10/31/16 16:18	7439-89-6	
Magnesium	14500	ug/L	500	250	1	10/30/16 22:48	10/31/16 16:18	7439-95-4	
Nickel	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:18	7440-02-0	
Tot Hardness asCaCO3 (SM 2340B	166000	ug/L	3210	1600	1	10/30/16 22:48	10/31/16 16:18		
Vanadium	5.0 U	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:18	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	10/30/16 22:48	10/31/16 16:18	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:19	7440-36-0	
Arsenic	66.3	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:19	7440-38-2	
Lead	0.50 I	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:19	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:19	7782-49-2	
Silver	0.050 U	ug/L	0.10	0.050	1	10/30/16 22:48	11/01/16 11:19	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:19	7440-28-0	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		11/03/16 11:49	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:49	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/03/16 11:49	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/03/16 11:49	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/03/16 11:49	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35272241

Sample: SW-2 **Lab ID: 35272241002** Collected: 10/24/16 12:30 Received: 10/24/16 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:49	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:49	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/03/16 11:49	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/03/16 11:49	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		11/03/16 11:49	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:49	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/03/16 11:49	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/03/16 11:49	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:49	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/03/16 11:49	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/03/16 11:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/03/16 11:49	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/03/16 11:49	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		11/03/16 11:49	96-18-4	
Vinyl acetate	1.0 U	ug/L	2.0	1.0	1		11/03/16 11:49	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/03/16 11:49	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/03/16 11:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	108	%	89-111		1		11/03/16 11:49	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-135		1		11/03/16 11:49	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		11/03/16 11:49	2037-26-5	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	405	mg/L	5.0	5.0	1		10/26/16 10:34		

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Sample: SW-2		Lab ID: 35272241002		Collected: 10/24/16 12:30		Received: 10/24/16 17:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	20.5	mg/L	2.4	2.4	1		10/27/16 15:28		
5210B BOD, 5 day		Analytical Method: SM 5210B							
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	10/25/16 14:34	10/30/16 16:45		
Chlorophyll & Pheophytin		Analytical Method: SM10200 Preparation Method: SM10200							
Chlorophyll a	16.7	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll b	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll c	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll a (Corrected)	14.0	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Pheophytin	3.4 I	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.87	mg/L	0.50	0.086	1		11/01/16 17:37		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.87	mg/L	0.50	0.086	1	10/31/16 08:17	11/01/16 10:57	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		10/25/16 10:20		
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		10/25/16 10:20		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.55	mg/L	0.10	0.050	1	10/31/16 08:17	11/01/16 10:57	7723-14-0	
410.4 COD		Analytical Method: EPA 410.4							
Chemical Oxygen Demand	76.0	mg/L	20.0	12.5	1		10/27/16 11:33		
5310B TOC		Analytical Method: SM 5310B							
Total Organic Carbon	23.4	mg/L	1.0	0.50	1		11/03/16 22:26	7440-44-0	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35272241

Sample: SW-1 Dup Lab ID: 35272241003 Collected: 10/24/16 11:30 Received: 10/24/16 17:00 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level Analytical Method: EPA 1631E Preparation Method: EPA 1631E									
Mercury	0.00182	ug/L	0.00050	0.00020	1	11/04/16 08:45	11/07/16 10:06	7439-97-6	
Field Data Analytical Method:									
Field pH	7.57	Std. Units			1		10/24/16 11:30		
Field Temperature	21.96	deg C			1		10/24/16 11:30		
Field Specific Conductance	452	umhos/cm			1		10/24/16 11:30		
Oxygen, Dissolved	8.40	mg/L			1		10/24/16 11:30	7782-44-7	
Turbidity	3.60	NTU			1		10/24/16 11:30		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0048 U	ug/L	0.020	0.0048	1	10/27/16 15:00	10/28/16 06:26	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0098	0.0074	1	10/27/16 15:00	10/28/16 06:26	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	12.0	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:23	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	10/31/16 16:23	7440-41-7	
Cadmium	2.0	ug/L	1.0	0.50	1	10/30/16 22:48	10/31/16 16:23	7440-43-9	
Calcium	33100	ug/L	500	250	1	10/30/16 22:48	10/31/16 16:23	7440-70-2	
Chromium	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:23	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:23	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:23	7440-50-8	
Iron	1170	ug/L	40.0	20.0	1	10/30/16 22:48	10/31/16 16:23	7439-89-6	
Magnesium	11000	ug/L	500	250	1	10/30/16 22:48	10/31/16 16:23	7439-95-4	
Nickel	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:23	7440-02-0	
Tot Hardness asCaCO3 (SM 2340B	128000	ug/L	3210	1600	1	10/30/16 22:48	10/31/16 16:23		
Vanadium	5.0 U	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:23	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	10/30/16 22:48	10/31/16 16:23	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:22	7440-36-0	
Arsenic	2.7	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:22	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:22	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:22	7782-49-2	
Silver	0.050 U	ug/L	0.10	0.050	1	10/30/16 22:48	11/01/16 11:22	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:22	7440-28-0	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		11/03/16 13:41	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/03/16 13:41	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/03/16 13:41	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/03/16 13:41	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/03/16 13:41	74-83-9	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Sample: SW-1 Dup Lab ID: 35272241003 Collected: 10/24/16 11:30 Received: 10/24/16 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/03/16 13:41	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/03/16 13:41	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/03/16 13:41	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/03/16 13:41	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		11/03/16 13:41	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/03/16 13:41	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/03/16 13:41	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/03/16 13:41	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/03/16 13:41	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/03/16 13:41	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/03/16 13:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/03/16 13:41	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/03/16 13:41	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		11/03/16 13:41	96-18-4	
Vinyl acetate	1.0 U	ug/L	2.0	1.0	1		11/03/16 13:41	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/03/16 13:41	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/03/16 13:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	107	%	89-111		1		11/03/16 13:41	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-135		1		11/03/16 13:41	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		11/03/16 13:41	2037-26-5	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	271	mg/L	5.0	5.0	1		10/26/16 10:34		

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35272241

Sample: SW-1 Dup		Lab ID: 35272241003		Collected: 10/24/16 11:30		Received: 10/24/16 17:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	2.3	mg/L	1.0	1.0	1		10/27/16 15:28		
5210B BOD, 5 day		Analytical Method: SM 5210B							
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	10/25/16 14:35	10/30/16 16:46		
Chlorophyll & Pheophytin		Analytical Method: SM10200 Preparation Method: SM10200							
Chlorophyll a	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll b	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll c	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll a (Corrected)	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Pheophytin	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	1.0	mg/L	0.50	0.086	1		11/01/16 17:37		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.82	mg/L	0.50	0.086	1	10/31/16 08:17	11/01/16 10:58	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.19	mg/L	0.050	0.025	1		10/25/16 10:21		
Nitrogen, NO2 plus NO3	0.19	mg/L	0.050	0.025	1		10/25/16 10:21		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.27	mg/L	0.10	0.050	1	10/31/16 08:17	11/01/16 10:58	7723-14-0	
410.4 COD		Analytical Method: EPA 410.4							
Chemical Oxygen Demand	67.1	mg/L	20.0	12.5	1		10/27/16 11:33		
5310B TOC		Analytical Method: SM 5310B							
Total Organic Carbon	20.9	mg/L	1.0	0.50	1		11/03/16 23:13	7440-44-0	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35272241

Sample: Field Blank Lab ID: 35272241004 Collected: 10/24/16 12:15 Received: 10/24/16 17:00 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level Analytical Method: EPA 1631E Preparation Method: EPA 1631E									
Mercury	ND	ug/L	0.00050	0.00020	1	11/04/16 08:45	11/07/16 09:27	7439-97-6	
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0049 U	ug/L	0.020	0.0049	1	10/27/16 15:00	10/28/16 06:41	96-12-8	
1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	10/27/16 15:00	10/28/16 06:41	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	39.9	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:27	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	10/31/16 16:27	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	10/31/16 16:27	7440-43-9	
Calcium	4580	ug/L	500	250	1	10/30/16 22:48	10/31/16 16:27	7440-70-2	
Chromium	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:27	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:27	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:27	7440-50-8	
Iron	20.0 U	ug/L	40.0	20.0	1	10/30/16 22:48	10/31/16 16:27	7439-89-6	
Magnesium	250 U	ug/L	500	250	1	10/30/16 22:48	10/31/16 16:27	7439-95-4	
Nickel	2.5 U	ug/L	5.0	2.5	1	10/30/16 22:48	10/31/16 16:27	7440-02-0	
Tot Hardness asCaCO3 (SM 2340B)	12300	ug/L	3210	1600	1	10/30/16 22:48	10/31/16 16:27		
Vanadium	5.0 U	ug/L	10.0	5.0	1	10/30/16 22:48	10/31/16 16:27	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	10/30/16 22:48	10/31/16 16:27	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:25	7440-36-0	
Arsenic	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:25	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:25	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:25	7782-49-2	
Silver	0.050 U	ug/L	0.10	0.050	1	10/30/16 22:48	11/01/16 11:25	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	10/30/16 22:48	11/01/16 11:25	7440-28-0	
8260 MSV Analytical Method: EPA 8260									
Acetone	15.9 I	ug/L	20.0	10.0	1		11/03/16 08:14	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/03/16 08:14	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/03/16 08:14	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/03/16 08:14	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/03/16 08:14	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/03/16 08:14	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/03/16 08:14	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/03/16 08:14	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/03/16 08:14	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		11/03/16 08:14	124-48-1	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35272241

Sample: Field Blank		Lab ID: 35272241004		Collected: 10/24/16 12:15		Received: 10/24/16 17:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/03/16 08:14	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/03/16 08:14	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/03/16 08:14	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/03/16 08:14	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/03/16 08:14	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/03/16 08:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/03/16 08:14	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/03/16 08:14	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		11/03/16 08:14	96-18-4	
Vinyl acetate	1.0 U	ug/L	2.0	1.0	1		11/03/16 08:14	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/03/16 08:14	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/03/16 08:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	89-111		1		11/03/16 08:14	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	75-135		1		11/03/16 08:14	17060-07-0	
Toluene-d8 (S)	95	%	89-112		1		11/03/16 08:14	2037-26-5	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	8.0	mg/L	5.0	5.0	1		10/26/16 10:34		
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1		10/26/16 17:01		
5210B BOD, 5 day		Analytical Method: SM 5210B							
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	10/25/16 14:36	10/30/16 16:48		

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Sample: Field Blank		Lab ID: 35272241004		Collected: 10/24/16 12:15		Received: 10/24/16 17:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Chlorophyll & Pheophytin		Analytical Method: SM10200 Preparation Method: SM10200							
Chlorophyll a	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll b	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll c	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Chlorophyll a (Corrected)	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Pheophytin	2.2 U	mg/m3	5.0	2.2	1	10/25/16 09:35	11/02/16 15:38		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.086 U	mg/L	0.50	0.086	1		11/01/16 17:37		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.086 U	mg/L	0.50	0.086	1	10/31/16 08:17	11/01/16 11:00	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		10/25/16 10:23		
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		10/25/16 10:23		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.050 U	mg/L	0.10	0.050	1	10/31/16 08:17	11/01/16 11:00	7723-14-0	
410.4 COD		Analytical Method: EPA 410.4							
Chemical Oxygen Demand	12.5 U	mg/L	20.0	12.5	1		10/27/16 11:33		
5310B TOC		Analytical Method: SM 5310B							
Total Organic Carbon	0.50 U	mg/L	1.0	0.50	1		11/03/16 23:28	7440-44-0	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Sample: SW-1 LL Hg Blank		Lab ID: 35272241005		Collected: 10/24/16 11:30		Received: 10/24/16 17:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level		Analytical Method: EPA 1631E Preparation Method: EPA 1631E							
Mercury	ND	ug/L	0.00050	0.00020	1	11/04/16 08:45	11/07/16 09:34	7439-97-6	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Sample: SW-2 LL Hg Blank		Lab ID: 35272241006		Collected: 10/24/16 12:30		Received: 10/24/16 17:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level		Analytical Method: EPA 1631E Preparation Method: EPA 1631E							
Mercury	ND	ug/L	0.00050	0.00020	1	11/04/16 08:45	11/07/16 09:47	7439-97-6	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Sample: Dup LL Hg Blank		Lab ID: 35272241007		Collected: 10/24/16 11:30		Received: 10/24/16 17:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level		Analytical Method: EPA 1631E Preparation Method: EPA 1631E							
Mercury	ND	ug/L	0.00050	0.00020	1	11/04/16 08:45	11/07/16 10:00	7439-97-6	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Sample: Field Blank LL Hg Blank **Lab ID:** 35272241008 Collected: 10/24/16 12:15 Received: 10/24/16 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level									
Analytical Method: EPA 1631E Preparation Method: EPA 1631E									
Mercury	ND	ug/L	0.00050	0.00020	1	11/04/16 08:45	11/07/16 09:21	7439-97-6	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Sample: Trip Blank Lab ID: 35272241009 Collected: 10/24/16 11:30 Received: 10/24/16 17:00 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		11/03/16 05:59	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/03/16 05:59	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/03/16 05:59	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/03/16 05:59	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/03/16 05:59	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/03/16 05:59	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/03/16 05:59	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/03/16 05:59	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/03/16 05:59	74-87-3	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		11/03/16 05:59	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/03/16 05:59	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/03/16 05:59	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/03/16 05:59	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/03/16 05:59	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/03/16 05:59	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/03/16 05:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/03/16 05:59	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/03/16 05:59	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		11/03/16 05:59	96-18-4	
Vinyl acetate	1.0 U	ug/L	2.0	1.0	1		11/03/16 05:59	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/03/16 05:59	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/03/16 05:59	1330-20-7	

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ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Sample: Trip Blank		Lab ID: 35272241009		Collected: 10/24/16 11:30		Received: 10/24/16 17:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Surrogates									
4-Bromofluorobenzene (S)	103	%	89-111		1		11/03/16 05:59	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	75-135		1		11/03/16 05:59	17060-07-0	
Toluene-d8 (S)	95	%	89-112		1		11/03/16 05:59	2037-26-5	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch: 240366 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004, 35272241005, 35272241006, 35272241007, 35272241008

METHOD BLANK: 1423894 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004, 35272241005, 35272241006, 35272241007, 35272241008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.00050	0.00020	11/07/16 09:08	

METHOD BLANK: 1423895 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004, 35272241005, 35272241006, 35272241007, 35272241008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.00050	0.00020	11/07/16 10:32	

METHOD BLANK: 1423896 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004, 35272241005, 35272241006, 35272241007, 35272241008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.00050	0.00020	11/07/16 11:53	

METHOD BLANK: 1423897 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004, 35272241005, 35272241006, 35272241007, 35272241008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.00053	0.00021	11/07/16 09:15	

LABORATORY CONTROL SAMPLE & LCSD: 1423898			1423899							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	.005	0.00500	0.00557	100	111	79-121	11	21	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35272241

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1425527 1425528											
Parameter	Units	35272241003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Mercury	ug/L	0.00182	.002	.002	0.00411	0.00408	115	113	75-125	1 24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1425529 1425530											
Parameter	Units	40140748003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Mercury	ug/L	0.547 ng/L	.002	.002	0.00265	0.00264	105	105	75-125	0 24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1425531 1425532											
Parameter	Units	40140748001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Mercury	ug/L	49.5 ng/L	.0842	.0842	0.147	0.140	116	107	75-125	5 24	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch: 329031 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

METHOD BLANK: 1757633 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	5.0 U	10.0	5.0	10/31/16 14:57	
Beryllium	ug/L	0.50 U	1.0	0.50	10/31/16 14:57	
Cadmium	ug/L	0.50 U	1.0	0.50	10/31/16 14:57	
Calcium	ug/L	250 U	500	250	10/31/16 14:57	
Chromium	ug/L	2.5 U	5.0	2.5	10/31/16 14:57	
Cobalt	ug/L	5.0 U	10.0	5.0	10/31/16 14:57	
Copper	ug/L	2.5 U	5.0	2.5	10/31/16 14:57	
Iron	ug/L	20.0 U	40.0	20.0	10/31/16 14:57	
Magnesium	ug/L	250 U	500	250	10/31/16 14:57	
Nickel	ug/L	2.5 U	5.0	2.5	10/31/16 14:57	
Tot Hardness asCaCO3 (SM 2340B	ug/L	1600 U	3210	1600	10/31/16 14:57	
Vanadium	ug/L	5.0 U	10.0	5.0	10/31/16 14:57	
Zinc	ug/L	10.0 U	20.0	10.0	10/31/16 14:57	

LABORATORY CONTROL SAMPLE: 1757634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	262	105	80-120	
Beryllium	ug/L	25	25.0	100	80-120	
Cadmium	ug/L	25	26.4	105	80-120	
Calcium	ug/L	12500	12300	99	80-120	
Chromium	ug/L	250	255	102	80-120	
Cobalt	ug/L	250	258	103	80-120	
Copper	ug/L	250	240	96	80-120	
Iron	ug/L	2500	2510	101	80-120	
Magnesium	ug/L	12500	12800	103	80-120	
Nickel	ug/L	250	261	104	80-120	
Tot Hardness asCaCO3 (SM 2340B	ug/L	82700	83700	101	80-120	
Vanadium	ug/L	250	244	98	80-120	
Zinc	ug/L	1250	1250	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1757635 1757636

Parameter	Units	35272023002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	18.7	250	250	272	278	101	104	75-125	2	20	
Beryllium	ug/L	0.50 U	25	25	24.1	25.0	96	100	75-125	3	20	
Cadmium	ug/L	3.5	25	25	27.6	28.3	96	99	75-125	3	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35272241

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1757635 1757636											
Parameter	Units	35272023002		MS	MSD	MSD		MS	MSD	% Rec	Max
		Result		Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD
Calcium	ug/L	30000		12500	12500	42200	42700	97	102	75-125	1 20
Chromium	ug/L	6.9		250	250	256	260	100	101	75-125	2 20
Cobalt	ug/L	5.0 U		250	250	252	260	99	102	75-125	3 20
Copper	ug/L	2.9 I		250	250	250	256	99	101	75-125	3 20
Iron	ug/L	14800		2500	2500	17200	17600	95	109	75-125	2 20
Magnesium	ug/L	24200		12500	12500	37100	37500	103	106	75-125	1 20
Nickel	ug/L	7.8		250	250	256	264	99	103	75-125	3 20
Tot Hardness asCaCO3 (SM 2340B	ug/L	175000		82700	82700	258000	261000	101	105	75-125	1 20
Vanadium	ug/L	12.3		250	250	253	260	96	99	75-125	3 20
Zinc	ug/L	10.0 U		1250	1250	1240	1280	99	102	75-125	3 20

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch: 329032 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

METHOD BLANK: 1757637 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/01/16 10:27	
Arsenic	ug/L	0.50 U	1.0	0.50	11/01/16 10:27	
Lead	ug/L	0.50 U	1.0	0.50	11/01/16 10:27	
Selenium	ug/L	0.50 U	1.0	0.50	11/01/16 10:27	
Silver	ug/L	0.050 U	0.10	0.050	11/01/16 10:27	
Thallium	ug/L	0.50 U	1.0	0.50	11/01/16 10:27	

LABORATORY CONTROL SAMPLE: 1757638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.1	96	80-120	
Arsenic	ug/L	50	50.6	101	80-120	
Lead	ug/L	50	49.2	98	80-120	
Selenium	ug/L	50	52.3	105	80-120	
Silver	ug/L	5	5.0	100	80-120	
Thallium	ug/L	50	49.3	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1757639 1757640

Parameter	Units	35272023003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	46.9	47.7	93	95	75-125	2	20	
Arsenic	ug/L	4.2	50	50	53.7	54.0	99	100	75-125	1	20	
Lead	ug/L	0.50 U	50	50	49.4	50.3	99	100	75-125	2	20	
Selenium	ug/L	0.50 U	50	50	49.4	50.7	98	101	75-125	3	20	
Silver	ug/L	0.050 U	5	5	4.8	4.8	95	96	75-125	0	20	
Thallium	ug/L	0.50 U	50	50	49.7	50.5	99	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch: 329693 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35272241001, 35272241002, 35272241003

METHOD BLANK: 1761246 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/03/16 04:06	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	11/03/16 04:06	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/03/16 04:06	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/03/16 04:06	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/03/16 04:06	
Acetone	ug/L	10.0 U	20.0	10.0	11/03/16 04:06	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/03/16 04:06	
Benzene	ug/L	0.10 U	1.0	0.10	11/03/16 04:06	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/03/16 04:06	
Bromoform	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/03/16 04:06	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/03/16 04:06	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/03/16 04:06	
Chloroform	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/03/16 04:06	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/03/16 04:06	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	11/03/16 04:06	
Dibromomethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/03/16 04:06	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/03/16 04:06	
Styrene	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
Toluene	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/03/16 04:06	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/03/16 04:06	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

METHOD BLANK: 1761246 Matrix: Water

Associated Lab Samples: 35272241001, 35272241002, 35272241003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
Vinyl acetate	ug/L	1.0 U	2.0	1.0	11/03/16 04:06	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/03/16 04:06	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/03/16 04:06	
1,2-Dichloroethane-d4 (S)	%	105	75-135		11/03/16 04:06	
4-Bromofluorobenzene (S)	%	107	89-111		11/03/16 04:06	
Toluene-d8 (S)	%	104	89-112		11/03/16 04:06	

LABORATORY CONTROL SAMPLE: 1761247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.3	102	70-130	
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	70-130	
1,1,2-Trichloroethane	ug/L	20	20.8	104	70-130	
1,1-Dichloroethane	ug/L	20	20.5	103	70-130	
1,1-Dichloroethene	ug/L	20	22.8	114	65-134	
1,2,3-Trichloropropane	ug/L	20	22.4	112	65-135	
1,2-Dichlorobenzene	ug/L	20	22.0	110	70-130	
1,2-Dichloroethane	ug/L	20	19.9	100	70-130	
1,2-Dichloropropane	ug/L	20	20.0	100	70-130	
1,4-Dichlorobenzene	ug/L	20	22.1	110	70-130	
2-Butanone (MEK)	ug/L	40	32.2	80	61-129	
2-Hexanone	ug/L	40	36.8	92	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	37.0	93	70-130	
Acetone	ug/L	40	34.4	86	44-155	
Acrylonitrile	ug/L	200	183	92	59-138	
Benzene	ug/L	20	20.5	103	70-130	
Bromochloromethane	ug/L	20	21.4	107	70-130	
Bromodichloromethane	ug/L	20	20.0	100	70-130	
Bromoform	ug/L	20	18.3	91	62-129	
Bromomethane	ug/L	20	24.9	125	10-179	
Carbon disulfide	ug/L	20	22.9	115	40-156	
Carbon tetrachloride	ug/L	20	20.4	102	66-127	
Chlorobenzene	ug/L	20	22.3	112	70-130	
Chloroethane	ug/L	20	24.3	121	57-142	
Chloroform	ug/L	20	20.9	105	70-130	
Chloromethane	ug/L	20	20.7	103	45-150	
cis-1,2-Dichloroethene	ug/L	20	20.1	100	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	70-130	
Dibromochloromethane	ug/L	20	19.8	99	70-130	
Dibromomethane	ug/L	20	20.3	102	70-130	
Ethylbenzene	ug/L	20	20.9	105	70-130	
Iodomethane	ug/L	40	45.7	114	21-150	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35272241

LABORATORY CONTROL SAMPLE: 1761247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.6	98	65-127	
Styrene	ug/L	20	21.6	108	70-130	
Tetrachloroethene	ug/L	20	18.8	94	48-155	
Toluene	ug/L	20	20.7	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.3	111	68-126	
trans-1,3-Dichloropropene	ug/L	20	18.7	93	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	16.8	84	46-138	
Trichloroethene	ug/L	20	21.2	106	69-129	
Trichlorofluoromethane	ug/L	20	26.9	135	60-144	
Vinyl acetate	ug/L	20	20.0	100	70-130	
Vinyl chloride	ug/L	20	24.4	122	67-136	
Xylene (Total)	ug/L	60	62.7	104	70-130	
1,2-Dichloroethane-d4 (S)	%			94	75-135	
4-Bromofluorobenzene (S)	%			103	89-111	
Toluene-d8 (S)	%			98	89-112	

MATRIX SPIKE SAMPLE: 1763105

Parameter	Units	35273491002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	20.4	102	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	21.2	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	19.1	95	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	20.5	102	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	21.4	107	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	24.9	125	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	19.2	96	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	22.2	111	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	20.3	101	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	20.1	101	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	22.0	110	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	33.4	84	61-129	
2-Hexanone	ug/L	5.0 U	40	38.9	97	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	37.1	93	70-130	
Acetone	ug/L	10.0 U	40	33.5	84	44-155	
Acrylonitrile	ug/L	5.0 U	200	182	91	59-138	
Benzene	ug/L	0.10 U	20	20.6	103	70-130	
Bromochloromethane	ug/L	0.50 U	20	21.4	107	70-130	
Bromodichloromethane	ug/L	0.27 U	20	20.2	101	70-130	
Bromoform	ug/L	0.50 U	20	17.4	87	62-129	
Bromomethane	ug/L	0.50 U	20	16.7	84	10-179	
Carbon disulfide	ug/L	5.0 U	20	25.8	129	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	21.5	107	66-127	
Chlorobenzene	ug/L	0.50 U	20	23.1	116	70-130	
Chloroethane	ug/L	0.50 U	20	25.9	130	57-142	
Chloroform	ug/L	0.50 U	20	21.0	105	70-130	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

MATRIX SPIKE SAMPLE: 1763105		35273491002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	21.8	109	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	21.1	106	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	17.5	87	70-130	
Dibromochloromethane	ug/L	0.26 U	20	19.1	95	70-130	
Dibromomethane	ug/L	0.50 U	20	20.3	101	70-130	
Ethylbenzene	ug/L	0.50 U	20	21.9	109	70-130	
Iodomethane	ug/L	0.50 U	40	39.8	99	21-150	
Methylene Chloride	ug/L	2.5 U	20	19.9	99	65-127	
Styrene	ug/L	0.50 U	20	21.4	107	70-130	
Tetrachloroethene	ug/L	0.50 U	20	19.3	96	48-155	
Toluene	ug/L	0.50 U	20	22.1	110	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	22.8	114	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	17.0	85	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	11.0	55	46-138	
Trichloroethene	ug/L	0.50 U	20	21.9	110	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	29.3	146	60-144 J(M1)	
Vinyl acetate	ug/L	1.0 U	20	16.9	85	70-130	
Vinyl chloride	ug/L	0.50 U	20	25.1	126	67-136	
Xylene (Total)	ug/L	1.5 U	60	64.8	108	70-130	
1,2-Dichloroethane-d4 (S)	%				100	75-135	
4-Bromofluorobenzene (S)	%				102	89-111	
Toluene-d8 (S)	%				99	89-112	

SAMPLE DUPLICATE: 1763104

Parameter	Units	35273491001	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
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	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 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	
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	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35272241

SAMPLE DUPLICATE: 1763104

Parameter	Units	35273491001 Result	Dup Result	RPD	Max RPD	Qualifiers
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	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		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	0.50 U	0.50 U		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	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		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	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	102	101	0	40	
4-Bromofluorobenzene (S)	%	106	107	1	40	
Toluene-d8 (S)	%	101	101	1	40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35272241

QC Batch: 329695

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 35272241004, 35272241009

METHOD BLANK: 1761263

Matrix: Water

Associated Lab Samples: 35272241004, 35272241009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/03/16 04:11	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	11/03/16 04:11	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/03/16 04:11	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/03/16 04:11	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/03/16 04:11	
Acetone	ug/L	10.0 U	20.0	10.0	11/03/16 04:11	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/03/16 04:11	
Benzene	ug/L	0.10 U	1.0	0.10	11/03/16 04:11	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/03/16 04:11	
Bromoform	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/03/16 04:11	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/03/16 04:11	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/03/16 04:11	
Chloroform	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/03/16 04:11	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/03/16 04:11	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	11/03/16 04:11	
Dibromomethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/03/16 04:11	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/03/16 04:11	
Styrene	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
Toluene	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/03/16 04:11	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/03/16 04:11	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35272241

METHOD BLANK: 1761263

Matrix: Water

Associated Lab Samples: 35272241004, 35272241009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
Vinyl acetate	ug/L	1.0 U	2.0	1.0	11/03/16 04:11	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/03/16 04:11	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/03/16 04:11	
1,2-Dichloroethane-d4 (S)	%	96	75-135		11/03/16 04:11	
4-Bromofluorobenzene (S)	%	108	89-111		11/03/16 04:11	
Toluene-d8 (S)	%	96	89-112		11/03/16 04:11	

LABORATORY CONTROL SAMPLE: 1761264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.5	102	70-130	
1,1,1-Trichloroethane	ug/L	20	19.5	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.0	105	70-130	
1,1,2-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	20	17.1	85	70-130	
1,1-Dichloroethene	ug/L	20	17.1	86	65-134	
1,2,3-Trichloropropane	ug/L	20	20.3	102	65-135	
1,2-Dichlorobenzene	ug/L	20	22.4	112	70-130	
1,2-Dichloroethane	ug/L	20	18.9	94	70-130	
1,2-Dichloropropane	ug/L	20	16.7	83	70-130	
1,4-Dichlorobenzene	ug/L	20	21.7	109	70-130	
2-Butanone (MEK)	ug/L	40	39.9	100	61-129	
2-Hexanone	ug/L	40	41.5	104	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	41.7	104	70-130	
Acetone	ug/L	40	44.7	112	44-155	
Acrylonitrile	ug/L	200	167	83	59-138	
Benzene	ug/L	20	18.4	92	70-130	
Bromochloromethane	ug/L	20	20.1	100	70-130	
Bromodichloromethane	ug/L	20	20.3	101	70-130	
Bromoform	ug/L	20	18.9	94	62-129	
Bromomethane	ug/L	20	20.6	103	10-179	
Carbon disulfide	ug/L	20	18.7	93	40-156	
Carbon tetrachloride	ug/L	20	18.4	92	66-127	
Chlorobenzene	ug/L	20	20.2	101	70-130	
Chloroethane	ug/L	20	12.4	62	57-142	
Chloroform	ug/L	20	19.3	96	70-130	
Chloromethane	ug/L	20	21.7	108	45-150	
cis-1,2-Dichloroethene	ug/L	20	17.5	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.3	97	70-130	
Dibromochloromethane	ug/L	20	19.7	98	70-130	
Dibromomethane	ug/L	20	21.2	106	70-130	
Ethylbenzene	ug/L	20	19.7	99	70-130	
Iodomethane	ug/L	40	36.6	92	21-150	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

LABORATORY CONTROL SAMPLE: 1761264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	16.2	81	65-127	
Styrene	ug/L	20	23.0	115	70-130	
Tetrachloroethene	ug/L	20	18.0	90	48-155	
Toluene	ug/L	20	18.9	95	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.2	86	68-126	
trans-1,3-Dichloropropene	ug/L	20	19.5	97	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	23.0	115	46-138	
Trichloroethene	ug/L	20	18.3	92	69-129	
Trichlorofluoromethane	ug/L	20	25.8	129	60-144	
Vinyl acetate	ug/L	20	19.9	99	70-130	
Vinyl chloride	ug/L	20	20.8	104	67-136	
Xylene (Total)	ug/L	60	63.1	105	70-130	
1,2-Dichloroethane-d4 (S)	%			97	75-135	
4-Bromofluorobenzene (S)	%			105	89-111	
Toluene-d8 (S)	%			95	89-112	

MATRIX SPIKE SAMPLE: 1762793

Parameter	Units	35273008001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.33 U	20	19.8	99	70-130	
1,1,1-Trichloroethane	ug/L	0.10 U	20	20.5	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.46 U	20	19.9	100	70-130	
1,1,2-Trichloroethane	ug/L	0.30 U	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	0.13 U	20	17.4	87	70-130	
1,1-Dichloroethene	ug/L	0.19 U	20	20.4	102	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	19.9	100	65-135	
1,2-Dichlorobenzene	ug/L	0.26 U	20	22.2	111	70-130	
1,2-Dichloroethane	ug/L	0.15 U	20	18.4	92	70-130	
1,2-Dichloropropane	ug/L	0.20 U	20	16.8	84	70-130	
1,4-Dichlorobenzene	ug/L	0.35 U	20	21.1	105	70-130	
2-Butanone (MEK)	ug/L	0.96 U	40	37.8	95	61-129	
2-Hexanone	ug/L	0.43 U	40	42.5	106	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	0.65 U	40	39.0	98	70-130	
Acetone	ug/L	10.0 U	40	38.9	97	44-155	
Acrylonitrile	ug/L	2.4 U	200	155	78	59-138	
Benzene	ug/L	0.15 U	20	18.6	93	70-130	
Bromochloromethane	ug/L	0.16 U	20	19.9	99	70-130	
Bromodichloromethane	ug/L	0.22 U	20	19.2	96	70-130	
Bromoform	ug/L	0.22 U	20	16.9	85	62-129	
Bromomethane	ug/L	0.25 U	20	16.3	82	10-179	
Carbon disulfide	ug/L	0.16 U	20	19.5	97	40-156	
Carbon tetrachloride	ug/L	0.10 U	20	19.6	98	66-127	
Chlorobenzene	ug/L	0.40 U	20	20.1	101	70-130	
Chloroethane	ug/L	0.68 U	20	21.0	105	57-142	
Chloroform	ug/L	0.18 U	20	19.3	96	70-130	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

MATRIX SPIKE SAMPLE: 1762793		35273008001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	21.8	109	45-150	
cis-1,2-Dichloroethene	ug/L	0.20 U	20	18.1	90	70-130	
cis-1,3-Dichloropropene	ug/L	0.19 U	20	16.7	83	70-130	
Dibromochloromethane	ug/L	0.30 U	20	18.8	94	70-130	
Dibromomethane	ug/L	0.38 U	20	20.3	101	70-130	
Ethylbenzene	ug/L	0.21 U	20	19.8	99	70-130	
Iodomethane	ug/L	0.50 U	40	37.1	93	21-150	
Methylene Chloride	ug/L	0.32 U	20	16.6	83	65-127	
Styrene	ug/L	0.36 U	20	21.5	107	70-130	
Tetrachloroethene	ug/L	0.41 U	20	17.7	88	48-155	
Toluene	ug/L	0.21 U	20	19.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	0.24 U	20	18.0	90	68-126	
trans-1,3-Dichloropropene	ug/L	0.17 U	20	16.8	84	70-130	
trans-1,4-Dichloro-2-butene	ug/L	0.20 U	20	11.0	55	46-138	
Trichloroethene	ug/L	0.17 U	20	19.1	96	69-129	
Trichlorofluoromethane	ug/L	0.32 U	20	26.8	134	60-144	
Vinyl acetate	ug/L	0.44 U	20	13.2	66	70-130 J(M1)	
Vinyl chloride	ug/L	0.13 U	20	23.9	119	67-136	
Xylene (Total)	ug/L	0.51 U	60	61.9	103	70-130	
1,2-Dichloroethane-d4 (S)	%				98	75-135	
4-Bromofluorobenzene (S)	%				103	89-111	
Toluene-d8 (S)	%				96	89-112	

SAMPLE DUPLICATE: 1762792

Parameter	Units	35273006001	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		0.50 U		40	
1,1,1-Trichloroethane	ug/L		0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L		0.12 U		40	
1,1,2-Trichloroethane	ug/L		0.50 U		40	
1,1-Dichloroethane	ug/L		0.50 U		40	
1,1-Dichloroethene	ug/L		0.50 U		40	
1,2,3-Trichloropropane	ug/L		0.59 U		40	
1,2-Dichlorobenzene	ug/L		0.50 U		40	
1,2-Dichloroethane	ug/L		0.50 U		40	
1,2-Dichloropropane	ug/L		0.50 U		40	
1,4-Dichlorobenzene	ug/L		0.50 U		40	
2-Butanone (MEK)	ug/L		5.0 U		40	
2-Hexanone	ug/L		5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L		5.0 U		40	
Acetone	ug/L		10.0 U		40	
Acrylonitrile	ug/L		5.0 U		40	
Benzene	ug/L	0.15 U	0.10 U		40	
Bromochloromethane	ug/L		0.50 U		40	
Bromodichloromethane	ug/L		0.27 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35272241

SAMPLE DUPLICATE: 1762792

Parameter	Units	35273006001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L		0.50 U		40	
Bromomethane	ug/L		0.50 U		40	
Carbon disulfide	ug/L		5.0 U		40	
Carbon tetrachloride	ug/L		0.50 U		40	
Chlorobenzene	ug/L		0.50 U		40	
Chloroethane	ug/L		0.50 U		40	
Chloroform	ug/L		0.50 U		40	
Chloromethane	ug/L		0.62 U		40	
cis-1,2-Dichloroethene	ug/L		0.50 U		40	
cis-1,3-Dichloropropene	ug/L		0.25 U		40	
Dibromochloromethane	ug/L		0.26 U		40	
Dibromomethane	ug/L		0.50 U		40	
Ethylbenzene	ug/L	0.21 U	0.50 U		40	
Iodomethane	ug/L		0.50 U		40	
Methylene Chloride	ug/L		2.5 U		40	
Styrene	ug/L		0.50 U		40	
Tetrachloroethene	ug/L		0.50 U		40	
Toluene	ug/L	0.21 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L		0.50 U		40	
trans-1,3-Dichloropropene	ug/L		0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L		5.0 U		40	
Trichloroethene	ug/L		0.50 U		40	
Trichlorofluoromethane	ug/L		0.50 U		40	
Vinyl acetate	ug/L		1.0 U		40	
Vinyl chloride	ug/L		0.50 U		40	
Xylene (Total)	ug/L	0.51 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	95	94	1	40	
4-Bromofluorobenzene (S)	%	106	104	1	40	
Toluene-d8 (S)	%	96	96	1	40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch: 328434 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

METHOD BLANK: 1753595 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0049 U	0.020	0.0049	10/28/16 00:23	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	10/28/16 00:23	

LABORATORY CONTROL SAMPLE: 1753596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.28	113	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.28	111	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1754468 1754469

Parameter	Units	35272611003 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	0.0048 U	.44	.44	0.61	0.68	140	155	60-140	10	40	J(M1)
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.61	0.71	140	161	60-140	14	40	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1754513 1754514

Parameter	Units	35272369001 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	0.0047 U	.44	.44	0.57	0.61	131	139	60-140	6	40	
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	.44	.44	0.54	0.59	124	134	60-140	8	40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch: 328243 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

METHOD BLANK: 1752481 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	10/26/16 10:27	

LABORATORY CONTROL SAMPLE: 1752482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	300	100	90-110	

SAMPLE DUPLICATE: 1752483

Parameter	Units	35272023007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1190	1330	11	5	J(D6)

SAMPLE DUPLICATE: 1752484

Parameter	Units	35272185008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1020	1000	1	5	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch:	328358	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	35272241004		

METHOD BLANK: 1753062 Matrix: Water
Associated Lab Samples: 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0	5.0	10/26/16 17:01	

LABORATORY CONTROL SAMPLE: 1753063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	95.0	95	90-110	

SAMPLE DUPLICATE: 1753064

Parameter	Units	35272383002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	72.0	72.0	0	5	

SAMPLE DUPLICATE: 1753065

Parameter	Units	35272538002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	124	130	5	5	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch: 328636 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 35272241001, 35272241002, 35272241003

METHOD BLANK: 1754417 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0	5.0	10/27/16 15:28	

LABORATORY CONTROL SAMPLE: 1754418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	100	100	90-110	

SAMPLE DUPLICATE: 1754419

Parameter	Units	35272795002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	164	162	1	5	

SAMPLE DUPLICATE: 1754420

Parameter	Units	35272655001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	30.0	32.0	6	5	J(D6)

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35272241

QC Batch: 327942 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

METHOD BLANK: 1750801 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0	2.0	10/30/16 16:28	

LABORATORY CONTROL SAMPLE: 1750802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	189	95	85-115	

SAMPLE DUPLICATE: 1750803

Parameter	Units	35272226001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0 U		20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch: 327929 Analysis Method: SM10200
QC Batch Method: SM10200 Analysis Description: Chlorophyll & Pheophytin
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

METHOD BLANK: 1750778 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chlorophyll a	mg/m3	2.2 U	5.0	2.2	11/02/16 15:38	
Chlorophyll a (Corrected)	mg/m3	2.2 U	5.0	2.2	11/02/16 15:38	
Chlorophyll b	mg/m3	2.2 U	5.0	2.2	11/02/16 15:38	
Chlorophyll c	mg/m3	2.2 U	5.0	2.2	11/02/16 15:38	
Pheophytin	mg/m3	2.2 U	5.0	2.2	11/02/16 15:38	

LABORATORY CONTROL SAMPLE: 1750779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorophyll a	mg/m3	10	10.2	102	85-115	

SAMPLE DUPLICATE: 1750780

Parameter	Units	35272226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chlorophyll a	mg/m3	4.7 I ug/L	4.5 I		40	
Chlorophyll a (Corrected)	mg/m3	2.2 U ug/L	2.2 U		40	
Chlorophyll b	mg/m3	2.2 U ug/L	2.2 U		40	
Chlorophyll c	mg/m3	2.2 U ug/L	2.2 U		40	
Pheophytin	mg/m3	4.3 I ug/L	2.3 I		40	

SAMPLE DUPLICATE: 1750781

Parameter	Units	35272241004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chlorophyll a	mg/m3	2.2 U	2.2 U		40	
Chlorophyll a (Corrected)	mg/m3	2.2 U	2.2 U		40	
Chlorophyll b	mg/m3	2.2 U	2.2 U		40	
Chlorophyll c	mg/m3	2.2 U	2.2 U		40	
Pheophytin	mg/m3	2.2 U	2.2 U		40	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35272241

QC Batch: 329045 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

METHOD BLANK: 1757703 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	0.086	11/01/16 10:49	

LABORATORY CONTROL SAMPLE: 1757704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	19.6	98	90-110	

MATRIX SPIKE SAMPLE: 1757706

Parameter	Units	35273183001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.60	20	20.6	100	90-110	

SAMPLE DUPLICATE: 1757705

Parameter	Units	35273183001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.60	0.66	9	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch: 327948 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

METHOD BLANK: 1750824 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.010 U	0.040	0.010	10/25/16 09:43	
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	10/25/16 09:43	

LABORATORY CONTROL SAMPLE: 1750825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1750827

Parameter	Units	35272193005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.025	2	2.2	111	90-110	J(M1)

MATRIX SPIKE SAMPLE: 1750829

Parameter	Units	35272226002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.21	2	2.3	106	90-110	

SAMPLE DUPLICATE: 1750826

Parameter	Units	35272193005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	<0.025	0.010 U		20	
Nitrogen, NO2 plus NO3	mg/L	<0.025	0.025 U		20	

SAMPLE DUPLICATE: 1750828

Parameter	Units	35272226002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.21	0.22	1	20	
Nitrogen, NO2 plus NO3	mg/L	0.21	0.22	1	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch: 329046 Analysis Method: EPA 365.4
QC Batch Method: EPA 365.4 Analysis Description: 365.4 Phosphorus
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

METHOD BLANK: 1757707 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.10	0.050	11/01/16 11:24	

LABORATORY CONTROL SAMPLE: 1757708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	4.0	100	90-110	

MATRIX SPIKE SAMPLE: 1757710

Parameter	Units	35273183001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	2.1	4	6.2	103	80-120	

SAMPLE DUPLICATE: 1757709

Parameter	Units	35273183001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	2.1	2.1	3	20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35272241

QC Batch: 328267 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

METHOD BLANK: 1752572 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	12.5 U	20.0	12.5	10/27/16 11:33	

LABORATORY CONTROL SAMPLE: 1752573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	518	104	90-110	

MATRIX SPIKE SAMPLE: 1752575

Parameter	Units	35272284001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	483 I	500	17200	3340	90-110	

MATRIX SPIKE SAMPLE: 1752577

Parameter	Units	35272416001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	<12.5	500	509	100	90-110	

SAMPLE DUPLICATE: 1752574

Parameter	Units	35272284001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	483 I	581 I		20	D3

SAMPLE DUPLICATE: 1752576

Parameter	Units	35272416001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	<12.5	12.5 U		20	

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QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35272241

QC Batch: 329998 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

METHOD BLANK: 1762805 Matrix: Water
Associated Lab Samples: 35272241001, 35272241002, 35272241003, 35272241004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	11/03/16 18:12	

LABORATORY CONTROL SAMPLE: 1762806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	19.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1762807 1762808

Parameter	Units	35272888001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	0.50 U	20	20	20.3	20.0	102	100	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1762809 1762810

Parameter	Units	35272241002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	23.4	20	20	44.2	44.2	104	104	80-120	0	20	

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QUALIFIERS

Project: Lena Road Landfill SW
Pace Project No.: 35272241

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.
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-G Pace Analytical Services - Green Bay
PASI-O Pace Analytical Services - Ormond Beach

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.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
J(D6) Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill SW
Pace Project No.: 35272241

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35272241001	SW-1	EPA 1631E	240366	EPA 1631E	240552
35272241002	SW-2	EPA 1631E	240366	EPA 1631E	240552
35272241003	SW-1 Dup	EPA 1631E	240366	EPA 1631E	240552
35272241004	Field Blank	EPA 1631E	240366	EPA 1631E	240552
35272241005	SW-1 LL Hg Blank	EPA 1631E	240366	EPA 1631E	240552
35272241006	SW-2 LL Hg Blank	EPA 1631E	240366	EPA 1631E	240552
35272241007	Dup LL Hg Blank	EPA 1631E	240366	EPA 1631E	240552
35272241008	Field Blank LL Hg Blank	EPA 1631E	240366	EPA 1631E	240552
35272241001	SW-1				
35272241002	SW-2				
35272241003	SW-1 Dup				
35272241001	SW-1	EPA 8011	328434	EPA 8011	328755
35272241002	SW-2	EPA 8011	328434	EPA 8011	328755
35272241003	SW-1 Dup	EPA 8011	328434	EPA 8011	328755
35272241004	Field Blank	EPA 8011	328434	EPA 8011	328755
35272241001	SW-1	EPA 3010	329031	EPA 6010	329123
35272241002	SW-2	EPA 3010	329031	EPA 6010	329123
35272241003	SW-1 Dup	EPA 3010	329031	EPA 6010	329123
35272241004	Field Blank	EPA 3010	329031	EPA 6010	329123
35272241001	SW-1	EPA 3010	329032	EPA 6020	329128
35272241002	SW-2	EPA 3010	329032	EPA 6020	329128
35272241003	SW-1 Dup	EPA 3010	329032	EPA 6020	329128
35272241004	Field Blank	EPA 3010	329032	EPA 6020	329128
35272241001	SW-1	EPA 8260	329693		
35272241002	SW-2	EPA 8260	329693		
35272241003	SW-1 Dup	EPA 8260	329693		
35272241004	Field Blank	EPA 8260	329695		
35272241009	Trip Blank	EPA 8260	329695		
35272241001	SW-1	SM 2540C	328243		
35272241002	SW-2	SM 2540C	328243		
35272241003	SW-1 Dup	SM 2540C	328243		
35272241004	Field Blank	SM 2540C	328243		
35272241001	SW-1	SM 2540D	328636		
35272241002	SW-2	SM 2540D	328636		
35272241003	SW-1 Dup	SM 2540D	328636		
35272241004	Field Blank	SM 2540D	328358		
35272241001	SW-1	SM 5210B	327942	SM 5210B	329174
35272241002	SW-2	SM 5210B	327942	SM 5210B	329174
35272241003	SW-1 Dup	SM 5210B	327942	SM 5210B	329174
35272241004	Field Blank	SM 5210B	327942	SM 5210B	329174
35272241001	SW-1	SM10200	327929	SM10200	329556
35272241002	SW-2	SM10200	327929	SM10200	329556
35272241003	SW-1 Dup	SM10200	327929	SM10200	329556

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill SW

Pace Project No.: 35272241

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35272241004	Field Blank	SM10200	327929	SM10200	329556
35272241001	SW-1	TKN+NOx Calculation	329450		
35272241002	SW-2	TKN+NOx Calculation	329450		
35272241003	SW-1 Dup	TKN+NOx Calculation	329450		
35272241004	Field Blank	TKN+NOx Calculation	329450		
35272241001	SW-1	EPA 350.1	329684		
35272241002	SW-2	EPA 350.1	329850		
35272241003	SW-1 Dup	EPA 350.1	329684		
35272241004	Field Blank	EPA 350.1	329684		
35272241001	SW-1	EPA 351.2	329045	EPA 351.2	329293
35272241002	SW-2	EPA 351.2	329045	EPA 351.2	329293
35272241003	SW-1 Dup	EPA 351.2	329045	EPA 351.2	329293
35272241004	Field Blank	EPA 351.2	329045	EPA 351.2	329293
35272241001	SW-1	EPA 353.2	327948		
35272241002	SW-2	EPA 353.2	327948		
35272241003	SW-1 Dup	EPA 353.2	327948		
35272241004	Field Blank	EPA 353.2	327948		
35272241001	SW-1	EPA 365.4	329046	EPA 365.4	329294
35272241002	SW-2	EPA 365.4	329046	EPA 365.4	329294
35272241003	SW-1 Dup	EPA 365.4	329046	EPA 365.4	329294
35272241004	Field Blank	EPA 365.4	329046	EPA 365.4	329294
35272241001	SW-1	EPA 410.4	328267		
35272241002	SW-2	EPA 410.4	328267		
35272241003	SW-1 Dup	EPA 410.4	328267		
35272241004	Field Blank	EPA 410.4	328267		
35272241001	SW-1	SM 5310B	329998		
35272241002	SW-2	SM 5310B	329998		
35272241003	SW-1 Dup	SM 5310B	329998		
35272241004	Field Blank	SM 5310B	329998		

REPORT OF LABORATORY ANALYSIS

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35272241

:-CUSTODY / Analytical Request Document

This study is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Section A

Required Client Information:

Company:	Manatee County Landfill
Address:	333 Lena Road
	Bradenton, FL 34211
Email:	
Phone:	F
Requested Due Date:	

Required Project Information:

Report To:	Bob Bennett
Copy To:	
Purchase Order #:	
Project Name:	Lena Road Landfill SW
Project #:	

Section C

Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	lori.palmer@paceclabs.com,
Pace Profile #:	8100 Line 2 - ALL

Page : 1 Of

Regulatory Agency

State / Location

FL

FL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, .) Sample Ids must be unique	MATRIX		CODE		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)
		Drinking Water	DW	Water	WT			START	END								
		Waste Water	WW	Product	P			DATE	TIME								
1	SW-1	Oil <td>OT<td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	OT <td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td>	Product <td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td>	P <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME</td></td></td>	TIME <td>DATE<td>TIME</td></td>	DATE <td>TIME</td>	TIME
2	SW-2	Oil <td>OT<td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	OT <td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td>	Product <td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td>	P <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME</td></td></td>	TIME <td>DATE<td>TIME</td></td>	DATE <td>TIME</td>	TIME
3	Dup	Oil <td>OT<td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	OT <td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td>	Product <td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td>	P <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME</td></td></td>	TIME <td>DATE<td>TIME</td></td>	DATE <td>TIME</td>	TIME
4	Field Blank	Oil <td>OT<td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	OT <td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td>	Product <td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td>	P <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME</td></td></td>	TIME <td>DATE<td>TIME</td></td>	DATE <td>TIME</td>	TIME
5		Oil <td>OT<td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	OT <td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td>	Product <td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td>	P <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME</td></td></td>	TIME <td>DATE<td>TIME</td></td>	DATE <td>TIME</td>	TIME
6		Oil <td>OT<td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	OT <td>Product<td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td></td>	Product <td>P<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td></td>	P <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td></td>	TIME <td>DATE<td>TIME<td>DATE<td>TIME</td></td></td></td>	DATE <td>TIME<td>DATE<td>TIME</td></td></td>	TIME <td>DATE<td>TIME</td></td>	DATE <td>TIME</td>	TIME
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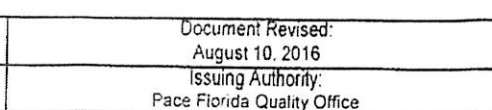
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
Field: SW Elevation, Cond, pH, DO, Turb		Pace		10/13/10		2:00		Pace		10/24/10		2:00			
Temp, Color/Sheen		Pace		10/25/10		00:10		Pace		10/25/10		00:10			
		FLX		10/25/10		00:10		FLX		10/25/10		00:10			

SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:		DATE Signed:	
SAMPLER NAME AND SIGNATURE		SAMPLER NAME AND SIGNATURE		SAMPLER NAME AND SIGNATURE		SAMPLER NAME AND SIGNATURE	

Page: 2 Of 2

Regulatory Agency

TEMP in C
Received on Ice (Y/N)
Custody Sealed Cooler (Y/N)
Samples Intact (Y/N)



pH:

Initials:

Qty:

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

☐ Samples on ice, cooling process has begun.

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Unknown

Tracking #

Ice: Wet Blue None

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

Comments:

Client Notification/ Resolution:

Person Contacted: _____

Date/Time:

Comments/ Resolution (use back for additional comments):

Trip Blanks was in cooler with SW-1 and Dup only.

Project Manager Review:

Date: _____



Document Name:
Field Sampling Log
Document Number:
F-FL-C-022 rev.00

Date Revised:
December 3, 2012
Issuing Authority:
Pace Florida Quality Office

Field Sampling Log

Arrived on Site Date 10/24/14 Time: 1000 Departed Site 10/24/14 Time: 1345
Sampler's Signature [Signature] Sampler's Name JAMES STOKORION
CLIENT NAME: MANATEE County PROJECT NAME: LENA RD LF SW
CLIENT CONTACT: _____ SITE CONTACT: _____
Personnel on Site: _____
SITE Location: MANATEE, FL
Ambient Conditions: _____
Brief Description of Field Activities: Collect Gen3 Samples
Field Equipment Used: None
Decon Procedures: Yes / No _____ If Yes. Please Describe _____
Field Filtering: Yes / No _____ If Yes. Please Describe _____
Sample Matrix: DW GW WW SU STW SO SE ML Other: SURFACE WATER
Physical Characteristics of Sample: _____
Sampling Method: GRAB ☒ COMPOSITE _____
For Composite Sampling; Document Sampling Procedure for Collecting a Representative Sample: _____

QC Blanks: _____ Precleaned EQB _____ Field Cleaned EQB _____
Field Blanks _____ Trip Blanks _____ QC Samples: _____ Duplicate _____ Replicate Samples _____
Split Samples(explain) _____

Sx. Location	Date and Time	Parameters	Appearance	Odor	pH	Temp °C	Conductivity	DO	Turbidity
SW-1/ADP	10/24/14 1130		Clear	None	7.57	21.96	452	8.40	5.60
SW-2	10/24/14 1230	Oil & Grease	Orange	None	4.57	23.14	733	1.80	4.11
Field Blank									
	10/24/14 1215								

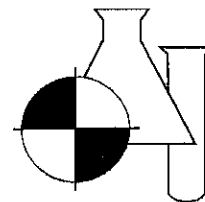
Calibration of Meters

Meter	Y / N	Standard	Slope	Varlance	Value

Other Notation's or Anomalies: _____

BENCHMARK

EnviroAnalytical Inc.



NELAC Certification #E84167

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

Submission Number : 16100834

Pace Analytical - Tampa
5460 Beaumont Center Blvd Suite 520
Tampa, FL 33634

Project Name : FLS-7996 - 35272241
Date Received : 10/24/2016
Time Received : 1325

Lori Palmer

Submission Number: 16100834 Sample Date: 10/24/2016
Sample Number: 001 Sample Time: 1130
Sample Description: SW-1 Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
FECAL COLIFORM	790 B	#/100 ML	10	10	SM9222D	10/24/2016 13:42	KD

Submission Number: 16100834 Sample Date: 10/24/2016
Sample Number: 002 Sample Time: 1130
Sample Description: Dup Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
FECAL COLIFORM	770 B	#/100 ML	10	10	SM9222D	10/24/2016 13:42	KD

Submission Number: 16100834 Sample Date: 10/24/2016
Sample Number: 003 Sample Time: 1230
Sample Description: SW-2 Sample Method: Grab

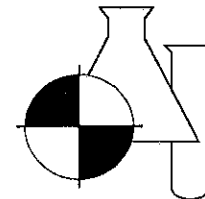
Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
FECAL COLIFORM	10 U	#/100 ML	10	10	SM9222D	10/24/2016 13:42	KD

Submission Number: 16100834 Sample Date: 10/24/2016
Sample Number: 004 Sample Time: 1215
Sample Description: Field Blank Sample Method: Grab

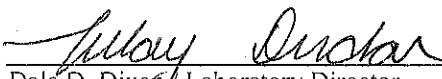
Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
FECAL COLIFORM	10 U	#/100 ML	10	10	SM9222D	10/24/2016 13:42	KD

BENCHMARK

EnviroAnalytical Inc.



NELAC Certification #E84167


Dale D. Dixon / Laboratory Director

10/26/2016

Date

Tülay Tanrisever / QC Officer

Deborah A. Murphy / Project Manager

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.

B = Results based upon colony counts outside the Ideal range.

H = Value based on field kit determination. Results may not be accurate.

I = Reported value is between the laboratory MDL and the PQL.

J1 = Estimated value. Surrogate recovery limits exceeded.

J2 = Estimated value. No quality control criteria exists for component.

J3 = Estimated value. Quality control criteria for precision or accuracy not met.

J4 = Estimated value. Sample matrix interference suspected.

J5 = Estimated value. Data questionable due to improper lab or field protocols.

K = Off-scale low. Value is known to be < the value reported.

L = Off-scale high. Value is known to be > the value reported.

N = Presumptive evidence of presence of material.

O = Sampled, but analysis lost or not performed.

Q = Sample held beyond accepted hold time.

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate and Spike values are within control limits. Reported data are usable.

Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.

Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.

! = Data deviate from historically established concentration ranges.

? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the presence or absence of the analyte cannot be determined from the data.

* = Not reported due to interference.

NOTES:

MBAS calculated as LAS; molecular weight = 340.

PQL = 4xMDL.

ND = Not detected at or above the adjusted reporting limit.

X = Value exceeds MCL.

G1 = Accuracy standards does not meet method control limits, but does meet lab control limits that are in agreement with USEPA generated data. USEPA letter available upon request.

COMMENTS:

For questions or comments regarding these results, please contact us at (941) 723-9986.

Results relate only to the samples.

Chain of Custody



3527 2241

PO Number: ELT-FS-7996	Workorder Name: Mantua County / LUNA RA LF	Requested Due Date / TAT:
Pace PM: LORE PAMUK Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 Phone (386) 672-5668 Fax (386) 672-5668		
Benchmark Enviro-Analytical 1711 12th Street East Palmetto, FL 34221 FS-7996		

Item	Sample ID	Sample Type	Date Collected	Time	Matrix	Preserved Containers											Fecal Coliform (MF)	LAB USE ONLY
						1	2	3	4	5	6	7	8	9	10	11		
1	SW-1	G	10/24/16	1130	SW	1											1	16100834-1
2	DUP	G	10/24/16	1130	SW	1											1	2
3	SW-2	G	10/24/16	1230	SW	1											1	3
4	FIELD *DUP BLANK	G	10/24/16	1215	SW	1											1	4
5																		
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11																		

Relinquished By / Affiliation	Date/Time	Received By / Affiliation	Date/Time
<i>[Signature]</i> Pace	10/24/16 1345	<i>[Signature]</i> BEA	10/24/16 1325

Cooler Temperature on Receipt 5.6 °C
 Custody Seal ☐ Y ☒ N
 Received on Ice ☐ Y ☒ N
 Samples Intact ☒ Y ☐ N

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