



Utilities
Landfill Operations
3333 Lena Road
Bradenton, FL 34211
Phone: (941) 748-5543
www.mymanatee.org/garbage

August 6, 2015

Ms. Kelly L. Bishop, P.G.
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926

Re: Water Quality Monitoring Reports for Lena Road Landfill (39884-018-SO/01) and Erie Road Landfill (69686-005-SF14), Second Half 2015

Dear Ms. Bishop:

Please find attached the analytical reports, electronic data deliverables, and requisite supporting documents associated with sampling events conducted at the Lena and Erie Road Landfills.

Please contact me at the number listed in the upper right corner should you require additional information or clarification regarding the enclosed reports.

Respectfully,

A handwritten signature in blue ink that reads "Bryan White".

Bryan White
Landfill Superintendent

bsw/lkf

cc: John Morris, P.G., FDEP



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Lena Road Class I Landfill

Address 3333 Lena Rd.

City Bradenton Zip FL County Manatee

Telephone Number (941) 792-8811

(2) WACS Facility ID SWD/41/44795

(3) DEP Permit Number 39884-018-SO/01

(4) Authorized Representative's Name Bryan White Title Landfill Superintendent

Address 3333 Lena Rd.

City Bradenton Zip 34211 County Manatee

Telephone Number (941) 792-8811, ext. 8008

Email address (if available) bryan.white@mymanatee.org

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

August 6, 2015
(Date)

Bryan White
(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Southern Analytical Laboratories, Inc.

Analytical Lab NELAC / HRS Certification # E84129

Lab Name Southern Analytical Laboratories, Inc.

Address 110 Bayview Blvd., Oldsmar, FL 34677

Phone Number (813) 855-1844

Email address (if available) Kathryn@southernanalyticallabs.com

Northwest District
160 Government Center
Pensacola, FL 32501-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. 200 B
Jacksonville, FL 32256-7590
904-607-3300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

Southwest District
13051 N. Telecom Pky.
Temple Terrace, FL
813-632-7600

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33902-2549
239-332-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **BGW-1 21610**
 Matrix **Groundwater**
 SAL Sample Number **1506679-01**
 Date/Time Collected **07/14/15 09:26**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Tannic	DEP SOPs				07/14/15 09:26	1
Dissolved Oxygen	mg/L	0.6	DEP FT1500	0.1	0.1		07/14/15 09:26	1
pH	SU	5.9	DEP FT1100	0.1	0.1		07/14/15 09:26	1
Specific conductance	umhos/cm	528	DEP FT1200	0.1	0.1		07/14/15 09:26	1
Turbidity	NTU	0.55	DEP FT1600	0.01	0.01		07/14/15 09:26	1
Water Temperature	°C	26.1	DEP FT1400	0.1	0.1		07/14/15 09:26	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/17/15 18:51	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 18:51	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 18:51	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/17/15 18:51	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/17/15 18:51	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/17/15 18:51	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/17/15 18:51	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/17/15 18:51	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 18:51	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 18:51	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/17/15 18:51	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 18:51	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 18:51	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1

Manatee County Utilities Solid Waste Division
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July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name LENA RD COUNTY LF

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 Matrix **Groundwater**
 SAL Sample Number **1506679-01**
 Date/Time Collected **07/14/15 09:26**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 18:51	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 18:51	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 18:51	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/17/15 18:51	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/17/15 18:51	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 18:51	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 18:51	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 18:51	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/17/15 18:51	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 18:51	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/17/15 18:51	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/17/15 18:51	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 18:51	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 18:51	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	97 %	Limits	65-135				
Surrogate for EPA 8260	4-Bromofluorobenzene	96 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	104 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	99 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/21/15 13:40	07/22/15 00:40	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/21/15 13:40	07/22/15 00:40	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	111 %	Limits	85-123				

Inorganics

Ammonia as N	mg/L	2.9	EPA 350.1	0.20	0.047		07/17/15 14:14	5
Chloride	mg/L	36 J5	SM 4500Cl-E	4.0	1.0		07/15/15 10:56	1
Nitrate (as N)	mg/L	0.03 I	EPA 353.2	0.08	0.02		07/17/15 14:14	1

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July 31, 2015
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Laboratory Report

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 Matrix **Groundwater**
 SAL Sample Number **1506679-01**
 Date/Time Collected **07/14/15 09:26**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate+Nitrite (N)	mg/L	0.03 I	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 U	SM 4500NO2-B	0.04	0.01		07/15/15 10:23	1
Total Dissolved Solids	mg/L	270	SM 2540C	10	10	07/20/15 08:13	07/21/15 18:37	1
Total Kjeldahl Nitrogen	mg/L	2.6 J5	EPA 351.2	1.0	0.25	07/16/15 08:06	07/21/15 11:59	5
Total Nitrogen	mg/L	2.6	351.2+353.2	1.0	0.26	07/17/15 14:14	07/21/15 11:59	5

Metals

Antimony	mg/L	0.014 I	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 13:47	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 13:47	1
Barium	mg/L	0.018 I	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 13:47	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 13:47	1
Cadmium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 13:47	1
Chromium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 13:47	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/15/15 09:34	07/15/15 13:47	1
Copper	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 13:47	1
Iron	ug/L	4,100	EPA 6010	100	20	07/15/15 09:34	07/15/15 13:47	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 13:47	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 15:56	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 13:47	1
Selenium	mg/L	0.022 I	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 13:47	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 13:47	1
Sodium	mg/L	31	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 13:47	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 13:47	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 13:47	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 13:47	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-1 21593**
 Matrix **Groundwater**
 SAL Sample Number **1506679-02**
 Date/Time Collected **07/14/15 10:29**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Clear	DEP SOPs				07/14/15 10:29	1
Dissolved Oxygen	mg/L	0.7	DEP FT1500	0.1	0.1		07/14/15 10:29	1
pH	SU	6.7	DEP FT1100	0.1	0.1		07/14/15 10:29	1
Specific conductance	umhos/cm	805	DEP FT1200	0.1	0.1		07/14/15 10:29	1
Turbidity	NTU	4.1	DEP FT1600	0.01	0.01		07/14/15 10:29	1
Water Elevation	ft., NGVD	19.26	DEP FS2211	0.01	0.01		07/14/15 10:29	1
Water Temperature	°C	25.5	DEP FT1400	0.1	0.1		07/14/15 10:29	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/17/15 19:23	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 19:23	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 19:23	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/17/15 19:23	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		07/17/15 19:23	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		07/17/15 19:23	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/17/15 19:23	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		07/17/15 19:23	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 19:23	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 19:23	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/17/15 19:23	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 19:23	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 19:23	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		07/17/15 19:23	1

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Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-1 21593**
 Matrix **Groundwater**
 SAL Sample Number **1506679-02**
 Date/Time Collected **07/14/15 10:29**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:23	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 19:23	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 19:23	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:23	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:23	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:23	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/17/15 19:23	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:23	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:23	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/17/15 19:23	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:23	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 19:23	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:23	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:23	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/17/15 19:23	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:23	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:23	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 19:23	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/17/15 19:23	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/17/15 19:23	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:23	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:23	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	102 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	96 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	105 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	98 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0053 u	EPA 8011	0.021	0.0053	07/21/15 13:40	07/22/15 04:13	1
1,2-Dibromoethane	ug/L	0.0053 u	EPA 8011	0.021	0.0053	07/21/15 13:40	07/22/15 04:13	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	107 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	1.1	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	50	SM 4500Cl-E	4.0	1.0		07/15/15 10:57	1

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 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.02 u	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.01 l	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 u	SM 4500NO2-B	0.04	0.01		07/15/15 10:23	1
Total Dissolved Solids	mg/L	440	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Kjeldahl Nitrogen	mg/L	2.2	EPA 351.2	1.0	0.25	07/16/15 08:06	07/21/15 11:59	5
Total Nitrogen	mg/L	2.2	351.2+353.2	1.0	0.26	07/17/15 14:14	07/21/15 11:59	5
Metals								
Antimony	mg/L	0.027 l	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 13:57	1
Arsenic	mg/L	0.0099 u	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 13:57	1
Barium	mg/L	0.020 l	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 13:57	1
Beryllium	ug/L	0.45 u	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 13:57	1
Cadmium	mg/L	0.0021 l	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 13:57	1
Chromium	mg/L	0.0010 u	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 13:57	1
Cobalt	ug/L	10 u	EPA 6010	100	10	07/15/15 09:34	07/15/15 13:57	1
Copper	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 13:57	1
Iron	ug/L	3,700	EPA 6010	100	20	07/15/15 09:34	07/15/15 13:57	1
Lead	mg/L	0.0060 u	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 13:57	1
Mercury	ug/L	0.10 u	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:02	1
Nickel	mg/L	0.0012 u	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 13:57	1
Selenium	mg/L	0.047 l	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 13:57	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 13:57	1
Sodium	mg/L	44	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 13:57	1
Thallium	mg/L	0.0050 u	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 13:57	1
Vanadium	ug/L	9.1 l	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 13:57	1
Zinc	mg/L	0.0065 l	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 13:57	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-2 21594**
 Matrix **Groundwater**
 SAL Sample Number **1506679-03**
 Date/Time Collected **07/14/15 10:34**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/14/15 10:34	1
Dissolved Oxygen	mg/L	0.7	DEP FT1500	0.1	0.1		07/14/15 10:34	1
pH	SU	6.4	DEP FT1100	0.1	0.1		07/14/15 10:34	1
Specific conductance	umhos/cm	798	DEP FT1200	0.1	0.1		07/14/15 10:34	1
Turbidity	NTU	6.9	DEP FT1600	0.01	0.01		07/14/15 10:34	1
Water Elevation	ft., NGVD	21.51	DEP FS2211	0.01	0.01		07/14/15 10:34	1
Water Temperature	°C	28.1	DEP FT1400	0.1	0.1		07/14/15 10:34	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/17/15 19:54	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:54	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:54	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/17/15 19:54	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/17/15 19:54	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/17/15 19:54	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/17/15 19:54	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/17/15 19:54	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:54	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:54	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/17/15 19:54	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:54	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 19:54	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-2 21594**
 Matrix **Groundwater**
 SAL Sample Number **1506679-03**
 Date/Time Collected **07/14/15 10:34**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 19:54	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 19:54	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:54	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/17/15 19:54	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/17/15 19:54	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:54	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 19:54	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:54	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/17/15 19:54	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 19:54	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/17/15 19:54	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/17/15 19:54	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 19:54	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 19:54	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	102 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	93 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	103 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	96 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0053 u	EPA 8011	0.021	0.0053	07/21/15 13:40	07/22/15 04:36	1
1,2-Dibromoethane	ug/L	0.0053 u	EPA 8011	0.021	0.0053	07/21/15 13:40	07/22/15 04:36	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	115 %	Limits		85-123			

Inorganics

Ammonia as N	mg/L	0.68	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	17	SM 4500Cl-E	4.0	1.0		07/15/15 10:57	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-2 21594**
 Matrix **Groundwater**
 SAL Sample Number **1506679-03**
 Date/Time Collected **07/14/15 10:34**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.03 I	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.03 I	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 U	SM 4500NO2-B	0.04	0.01		07/15/15 10:24	1
Total Dissolved Solids	mg/L	510	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Kjeldahl Nitrogen	mg/L	1.8	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	1.9	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1
Metals								
Antimony	mg/L	0.029 I	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:00	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:00	1
Barium	mg/L	0.027 I	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:00	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:00	1
Cadmium	mg/L	0.0019 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:00	1
Chromium	mg/L	0.0014 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:00	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:00	1
Copper	mg/L	0.0036 I	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:00	1
Iron	ug/L	7,900	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:00	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:00	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:03	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:00	1
Selenium	mg/L	0.048 I	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:00	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:00	1
Sodium	mg/L	31	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 14:00	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:00	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:00	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:00	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description **GW-3 21595**
 Matrix **Groundwater**
 SAL Sample Number **1506679-04**
 Date/Time Collected **07/14/15 11:12**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/14/15 11:12	1
Dissolved Oxygen	mg/L	0.7	DEP FT1500	0.1	0.1		07/14/15 11:12	1
pH	SU	6.3	DEP FT1100	0.1	0.1		07/14/15 11:12	1
Specific conductance	umhos/cm	622	DEP FT1200	0.1	0.1		07/14/15 11:12	1
Turbidity	NTU	2.2	DEP FT1600	0.01	0.01		07/14/15 11:12	1
Water Elevation	ft., NGVD	19.84	DEP FS2211	0.01	0.01		07/14/15 11:12	1
Water Temperature	°C	26.9	DEP FT1400	0.1	0.1		07/14/15 11:12	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/17/15 20:26	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 20:26	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 20:26	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/17/15 20:26	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		07/17/15 20:26	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		07/17/15 20:26	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/17/15 20:26	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		07/17/15 20:26	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 20:26	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 20:26	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/17/15 20:26	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:26	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 20:26	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		07/17/15 20:26	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-3 21595**
 Matrix **Groundwater**
 SAL Sample Number **1506679-04**
 Date/Time Collected **07/14/15 11:12**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:26	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 20:26	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 20:26	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:26	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 20:26	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:26	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/17/15 20:26	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:26	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:26	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/17/15 20:26	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 20:26	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 20:26	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:26	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 20:26	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/17/15 20:26	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:26	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:26	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 20:26	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/17/15 20:26	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/17/15 20:26	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:26	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 20:26	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	101 %	Limits	65-135				
Surrogate for EPA 8260	4-Bromofluorobenzene	98 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	103 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	98 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0052 u	EPA 8011	0.021	0.0052	07/21/15 13:40	07/22/15 05:00	1
1,2-Dibromoethane	ug/L	0.0052 u	EPA 8011	0.021	0.0052	07/21/15 13:40	07/22/15 05:00	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	97 %	Limits	85-123				

Inorganics

Ammonia as N	mg/L	0.15	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	14	SM 4500Cl-E	4.0	1.0		07/15/15 10:58	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-3 21595**
 Matrix **Groundwater**
 SAL Sample Number **1506679-04**
 Date/Time Collected **07/14/15 11:12**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.02 I	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.02 I	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 U	SM 4500NO2-B	0.04	0.01		07/15/15 10:24	1
Total Dissolved Solids	mg/L	510	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Kjeldahl Nitrogen	mg/L	1.1	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	1.1	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1
Metals								
Antimony	mg/L	0.026 I	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:03	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:03	1
Barium	mg/L	0.013 I	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:03	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:03	1
Cadmium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:03	1
Chromium	mg/L	0.0018 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:03	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:03	1
Copper	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:03	1
Iron	ug/L	920	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:03	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:03	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:04	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:03	1
Selenium	mg/L	0.045 I	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:03	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:03	1
Sodium	mg/L	13	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 14:03	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:03	1
Vanadium	ug/L	8.2 I	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:03	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:03	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-4 21596**
 Matrix **Groundwater**
 SAL Sample Number **1506679-05**
 Date/Time Collected **07/14/15 11:15**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/14/15 11:15	1
Dissolved Oxygen	mg/L	0.4	DEP FT1500	0.1	0.1		07/14/15 11:15	1
pH	SU	6.0	DEP FT1100	0.1	0.1		07/14/15 11:15	1
Specific conductance	umhos/cm	340	DEP FT1200	0.1	0.1		07/14/15 11:15	1
Turbidity	NTU	12	DEP FT1600	0.01	0.01		07/14/15 11:15	1
Water Elevation	ft., NGVD	20.90	DEP FS2211	0.01	0.01		07/14/15 11:15	1
Water Temperature	°C	26.1	DEP FT1400	0.1	0.1		07/14/15 11:15	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/17/15 20:57	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 20:57	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 20:57	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/17/15 20:57	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		07/17/15 20:57	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		07/17/15 20:57	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/17/15 20:57	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		07/17/15 20:57	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 20:57	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 20:57	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/17/15 20:57	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 20:57	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 20:57	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		07/17/15 20:57	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-4 21596**
 Matrix **Groundwater**
 SAL Sample Number **1506679-05**
 Date/Time Collected **07/14/15 11:15**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:57	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 20:57	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 20:57	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:57	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 20:57	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:57	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/17/15 20:57	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:57	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:57	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/17/15 20:57	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 20:57	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 20:57	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:57	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 20:57	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/17/15 20:57	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:57	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:57	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 20:57	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/17/15 20:57	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/17/15 20:57	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 20:57	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 20:57	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	108 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	98 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	104 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	98 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/23/15 16:30	07/24/15 05:38	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/23/15 16:30	07/24/15 05:38	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	106 %	Limits		82-126			

Inorganics

Ammonia as N	mg/L	0.12	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	5.6	SM 4500Cl-E	4.0	1.0		07/15/15 10:58	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-4 21596**
 Matrix **Groundwater**
 SAL Sample Number **1506679-05**
 Date/Time Collected **07/14/15 11:15**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	1.0	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	1.1	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.02 I	SM 4500NO2-B	0.04	0.01		07/15/15 10:25	1
Total Dissolved Solids	mg/L	280	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Kjeldahl Nitrogen	mg/L	1.0	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	2.1	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1
Metals								
Antimony	mg/L	0.016 I	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:06	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:06	1
Barium	mg/L	0.013 I	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:06	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:06	1
Cadmium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:06	1
Chromium	mg/L	0.0026 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:06	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:06	1
Copper	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:06	1
Iron	ug/L	360	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:06	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:06	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:06	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:06	1
Selenium	mg/L	0.024 I	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:06	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:06	1
Sodium	mg/L	4.9	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 14:06	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:06	1
Vanadium	ug/L	16	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:06	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:06	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-5 21597**
 Matrix **Groundwater**
 SAL Sample Number **1506679-06**
 Date/Time Collected **07/14/15 12:06**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/14/15 12:06	1
Dissolved Oxygen	mg/L	0.5	DEP FT1500	0.1	0.1		07/14/15 12:06	1
pH	SU	6.2	DEP FT1100	0.1	0.1		07/14/15 12:06	1
Specific conductance	umhos/cm	733	DEP FT1200	0.1	0.1		07/14/15 12:06	1
Turbidity	NTU	2.5	DEP FT1600	0.01	0.01		07/14/15 12:06	1
Water Elevation	ft., NGVD	20.24	DEP FS2211	0.01	0.01		07/14/15 12:06	1
Water Temperature	°C	27.2	DEP FT1400	0.1	0.1		07/14/15 12:06	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/17/15 21:29	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 21:29	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 21:29	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/17/15 21:29	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		07/17/15 21:29	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		07/17/15 21:29	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/17/15 21:29	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		07/17/15 21:29	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 21:29	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 21:29	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/17/15 21:29	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 21:29	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 21:29	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		07/17/15 21:29	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-5 21597**
 Matrix **Groundwater**
 SAL Sample Number **1506679-06**
 Date/Time Collected **07/14/15 12:06**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 21:29	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 21:29	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 21:29	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 21:29	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 21:29	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 21:29	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/17/15 21:29	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 21:29	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 21:29	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/17/15 21:29	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 21:29	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 21:29	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 21:29	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 21:29	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/17/15 21:29	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 21:29	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 21:29	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 21:29	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/17/15 21:29	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/17/15 21:29	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 21:29	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 21:29	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	104 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	99 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	108 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	99 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/23/15 16:30	07/24/15 06:01	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/23/15 16:30	07/24/15 06:01	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	109 %	Limits		82-126			

Inorganics

Ammonia as N	mg/L	1.2	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	29	SM 4500Cl-E	4.0	1.0		07/15/15 10:59	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-5 21597**
 Matrix **Groundwater**
 SAL Sample Number **1506679-06**
 Date/Time Collected **07/14/15 12:06**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.34	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.34	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 u	SM	0.04	0.01		07/15/15 10:25	1
			4500NO2-B					
Total Dissolved Solids	mg/L	500	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Kjeldahl Nitrogen	mg/L	2.1	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	2.4	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1
Metals								
Antimony	mg/L	0.018 l	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:09	1
Arsenic	mg/L	0.0099 u	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:09	1
Barium	mg/L	0.016 l	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:09	1
Beryllium	ug/L	0.45 u	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:09	1
Cadmium	mg/L	0.0010 l	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:09	1
Chromium	mg/L	0.0012 l	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:09	1
Cobalt	ug/L	10 u	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:09	1
Copper	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:09	1
Iron	ug/L	14,000	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:09	1
Lead	mg/L	0.0060 u	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:09	1
Mercury	ug/L	0.10 u	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:07	1
Nickel	mg/L	0.0012 u	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:09	1
Selenium	mg/L	0.030 l	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:09	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:09	1
Sodium	mg/L	23	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 14:09	1
Thallium	mg/L	0.0050 u	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:09	1
Vanadium	ug/L	11	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:09	1
Zinc	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:09	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-6 21598**
 Matrix **Groundwater**
 SAL Sample Number **1506679-07**
 Date/Time Collected **07/14/15 11:54**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/14/15 11:54	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		07/14/15 11:54	1
pH	SU	6.4	DEP FT1100	0.1	0.1		07/14/15 11:54	1
Specific conductance	umhos/cm	1,344	DEP FT1200	0.1	0.1		07/14/15 11:54	1
Turbidity	NTU	1.5	DEP FT1600	0.01	0.01		07/14/15 11:54	1
Water Elevation	ft., NGVD	19.41	DEP FS2211	0.01	0.01		07/14/15 11:54	1
Water Temperature	°C	27.2	DEP FT1400	0.1	0.1		07/14/15 11:54	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/17/15 22:00	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:00	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:00	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/17/15 22:00	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/17/15 22:00	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/17/15 22:00	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/17/15 22:00	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/17/15 22:00	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:00	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:00	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/17/15 22:00	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:00	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 22:00	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-6 21598**
 Matrix **Groundwater**
 SAL Sample Number **1506679-07**
 Date/Time Collected **07/14/15 11:54**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 22:00	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 22:00	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:00	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/17/15 22:00	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/17/15 22:00	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:00	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 22:00	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:00	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/17/15 22:00	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 22:00	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/17/15 22:00	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/17/15 22:00	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:00	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:00	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	101 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	92 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	106 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	98 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/23/15 16:30	07/24/15 06:25	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/23/15 16:30	07/24/15 06:25	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	107 %	Limits		82-126			

Inorganics

Ammonia as N	mg/L	1.3	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	5.4	SM 4500Cl-E	4.0	1.0		07/15/15 10:59	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-6 21598**
 Matrix **Groundwater**
 SAL Sample Number **1506679-07**
 Date/Time Collected **07/14/15 11:54**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.16 I	EPA 353.2	0.24	0.06		07/17/15 14:14	5
Nitrate+Nitrite (N)	mg/L	0.16 I	EPA 353.2	0.20	0.05		07/17/15 14:14	5
Nitrite (as N)	mg/L	0.01 U	SM 4500NO2-B	0.04	0.01		07/15/15 10:26	1
Total Dissolved Solids	mg/L	990	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Kjeldahl Nitrogen	mg/L	1.7	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	1.8	351.2+353.2	0.40	0.10	07/17/15 14:14	07/21/15 11:59	5
Metals								
Antimony	mg/L	0.032 I	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:21	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:21	1
Barium	mg/L	0.023 I	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:21	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:21	1
Cadmium	mg/L	0.0012 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:21	1
Chromium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:21	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:21	1
Copper	mg/L	0.0030 I	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:21	1
Iron	ug/L	2,000	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:21	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:21	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:12	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:21	1
Selenium	mg/L	0.049 I	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:21	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:21	1
Sodium	mg/L	5.8	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 14:21	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:21	1
Vanadium	ug/L	10	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:21	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:21	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-7 21599**
 Matrix **Groundwater**
 SAL Sample Number **1506679-08**
 Date/Time Collected **07/14/15 12:45**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/14/15 12:45	1
Dissolved Oxygen	mg/L	1.0	DEP FT1500	0.1	0.1		07/14/15 12:45	1
pH	SU	6.4	DEP FT1100	0.1	0.1		07/14/15 12:45	1
Specific conductance	umhos/cm	583	DEP FT1200	0.1	0.1		07/14/15 12:45	1
Turbidity	NTU	3.2	DEP FT1600	0.01	0.01		07/14/15 12:45	1
Water Elevation	ft., NGVD	18.95	DEP FS2211	0.01	0.01		07/14/15 12:45	1
Water Temperature	°C	26.8	DEP FT1400	0.1	0.1		07/14/15 12:45	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/17/15 22:32	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:32	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:32	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/17/15 22:32	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/17/15 22:32	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/17/15 22:32	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/17/15 22:32	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/17/15 22:32	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:32	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:32	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/17/15 22:32	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:32	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 22:32	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-7 21599**
 Matrix **Groundwater**
 SAL Sample Number **1506679-08**
 Date/Time Collected **07/14/15 12:45**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 22:32	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 22:32	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:32	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/17/15 22:32	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/17/15 22:32	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:32	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 22:32	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:32	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/17/15 22:32	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 22:32	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/17/15 22:32	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/17/15 22:32	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 22:32	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 22:32	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	100 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	95 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	109 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	98 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/23/15 16:30	07/24/15 06:49	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/23/15 16:30	07/24/15 06:49	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	112 %	Limits		82-126			

Inorganics

Ammonia as N	mg/L	0.50	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	17	SM 4500Cl-E	4.0	1.0		07/15/15 11:00	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-7 21599**
 Matrix **Groundwater**
 SAL Sample Number **1506679-08**
 Date/Time Collected **07/14/15 12:45**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.05 I	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.05	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 U	SM 4500NO2-B	0.04	0.01		07/15/15 10:26	1
Total Dissolved Solids	mg/L	360	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Kjeldahl Nitrogen	mg/L	1.2	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	1.2	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1
Metals								
Antimony	mg/L	0.020 I	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:27	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:27	1
Barium	mg/L	0.011 I	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:27	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:27	1
Cadmium	mg/L	0.0010 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:27	1
Chromium	mg/L	0.0013 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:27	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:27	1
Copper	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:27	1
Iron	ug/L	130	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:27	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:27	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:13	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:27	1
Selenium	mg/L	0.045 I	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:27	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:27	1
Sodium	mg/L	16	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 14:27	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:27	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:27	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:27	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-8 21600**
 Matrix **Groundwater**
 SAL Sample Number **1506679-09**
 Date/Time Collected **07/14/15 12:57**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/14/15 12:57	1
Dissolved Oxygen	mg/L	0.3	DEP FT1500	0.1	0.1		07/14/15 12:57	1
pH	SU	6.4	DEP FT1100	0.1	0.1		07/14/15 12:57	1
Specific conductance	umhos/cm	620	DEP FT1200	0.1	0.1		07/14/15 12:57	1
Turbidity	NTU	4.3	DEP FT1600	0.01	0.01		07/14/15 12:57	1
Water Elevation	ft., NGVD	19.43	DEP FS2211	0.01	0.01		07/14/15 12:57	1
Water Temperature	°C	27.1	DEP FT1400	0.1	0.1		07/14/15 12:57	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/17/15 23:03	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:03	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:03	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/17/15 23:03	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/17/15 23:03	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/17/15 23:03	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/17/15 23:03	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/17/15 23:03	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:03	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:03	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/17/15 23:03	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:03	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 23:03	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description **GW-8 21600**
 Matrix **Groundwater**
 SAL Sample Number **1506679-09**
 Date/Time Collected **07/14/15 12:57**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 23:03	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 23:03	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:03	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/17/15 23:03	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/17/15 23:03	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:03	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 23:03	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:03	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/17/15 23:03	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 23:03	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/17/15 23:03	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/17/15 23:03	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:03	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:03	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	104 %	Limits	65-135				
Surrogate for EPA 8260	4-Bromofluorobenzene	94 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	105 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	103 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/23/15 16:30	07/24/15 07:12	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/23/15 16:30	07/24/15 07:12	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	114 %	Limits	82-126				

Inorganics

Ammonia as N	mg/L	0.71	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	24	SM 4500Cl-E	4.0	1.0		07/15/15 11:02	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-8 21600**
 Matrix **Groundwater**
 SAL Sample Number **1506679-09**
 Date/Time Collected **07/14/15 12:57**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.02 u	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.01 u	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 u	SM 4500NO2-B	0.04	0.01		07/15/15 10:29	1
Total Dissolved Solids	mg/L	480	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Kjeldahl Nitrogen	mg/L	1.2	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	1.2	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1
Metals								
Antimony	mg/L	0.026 l	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:30	1
Arsenic	mg/L	0.0099 u	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:30	1
Barium	mg/L	0.023 l	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:30	1
Beryllium	ug/L	0.45 u	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:30	1
Cadmium	mg/L	0.0010 l	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:30	1
Chromium	mg/L	0.0013 l	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:30	1
Cobalt	ug/L	10 u	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:30	1
Copper	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:30	1
Iron	ug/L	67 l	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:30	1
Lead	mg/L	0.0060 u	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:30	1
Mercury	ug/L	0.10 u	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:15	1
Nickel	mg/L	0.0012 u	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:30	1
Selenium	mg/L	0.041 l	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:30	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:30	1
Sodium	mg/L	17	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 14:30	1
Thallium	mg/L	0.0050 u	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:30	1
Vanadium	ug/L	7.8 u	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:30	1
Zinc	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:30	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-9 21601**
 Matrix **Groundwater**
 SAL Sample Number **1506679-10**
 Date/Time Collected **07/14/15 13:14**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Tannic Large	DEP SOPs				07/14/15 13:14	1
Dissolved Oxygen	mg/L	0.7	DEP FT1500	0.1	0.1		07/14/15 13:14	1
pH	SU	6.6	DEP FT1100	0.1	0.1		07/14/15 13:14	1
Specific conductance	umhos/cm	489	DEP FT1200	0.1	0.1		07/14/15 13:14	1
Turbidity	NTU	2.7	DEP FT1600	0.01	0.01		07/14/15 13:14	1
Water Elevation	ft., NGVD	19.09	DEP FS2211	0.01	0.01		07/14/15 13:14	1
Water Temperature	°C	28.2	DEP FT1400	0.1	0.1		07/14/15 13:14	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/17/15 23:35	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 23:35	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 23:35	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/17/15 23:35	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		07/17/15 23:35	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		07/17/15 23:35	1
Acetone	ug/L	2.7 I	EPA 8260	4.0	2.0		07/17/15 23:35	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		07/17/15 23:35	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 23:35	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 23:35	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/17/15 23:35	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		07/17/15 23:35	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/17/15 23:35	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-9 21601**
 Matrix **Groundwater**
 SAL Sample Number **1506679-10**
 Date/Time Collected **07/14/15 13:14**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 23:35	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:35	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 23:35	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 23:35	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:35	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:35	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:35	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/17/15 23:35	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:35	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:35	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/17/15 23:35	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:35	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/17/15 23:35	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:35	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:35	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/17/15 23:35	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:35	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:35	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/17/15 23:35	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/17/15 23:35	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/17/15 23:35	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/17/15 23:35	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/17/15 23:35	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	111 %	Limits	65-135				
Surrogate for EPA 8260	4-Bromofluorobenzene	93 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	109 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	100 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/23/15 16:30	07/24/15 07:36	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/23/15 16:30	07/24/15 07:36	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	113 %	Limits	82-126				

Inorganics

Ammonia as N	mg/L	0.76	EPA 350.1	0.040	0.009		07/17/15 14:14	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-9 21601**
 Matrix **Groundwater**
 SAL Sample Number **1506679-10**
 Date/Time Collected **07/14/15 13:14**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloride	mg/L	12	SM 4500Cl-E	4.0	1.0		07/15/15 11:03	1
Nitrate (as N)	mg/L	0.02 u	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.01 u	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 u	SM 4500NO2-B	0.04	0.01		07/15/15 10:29	1
Total Dissolved Solids	mg/L	380	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Kjeldahl Nitrogen	mg/L	1.4	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	1.4	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1

Metals

Antimony	mg/L	0.021 l	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:33	1
Arsenic	mg/L	0.0099 u	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:33	1
Barium	mg/L	0.012 l	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:33	1
Beryllium	ug/L	0.45 u	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:33	1
Cadmium	mg/L	0.0010 u	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:33	1
Chromium	mg/L	0.0010 u	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:33	1
Cobalt	ug/L	10 u	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:33	1
Copper	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:33	1
Iron	ug/L	1,500	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:33	1
Lead	mg/L	0.0060 u	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:33	1
Mercury	ug/L	0.10 u	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:20	1
Nickel	mg/L	0.0012 u	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:33	1
Selenium	mg/L	0.031 l	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:33	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:33	1
Sodium	mg/L	9.1	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 14:33	1
Thallium	mg/L	0.0050 u	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:33	1
Vanadium	ug/L	10	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:33	1
Zinc	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:33	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-10 21602**
 Matrix **Groundwater**
 SAL Sample Number **1506679-11**
 Date/Time Collected **07/15/15 08:42**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/15/15 08:42	1
Dissolved Oxygen	mg/L	1.3	DEP FT1500	0.1	0.1		07/15/15 08:42	1
pH	SU	6.6	DEP FT1100	0.1	0.1		07/15/15 08:42	1
Specific conductance	umhos/cm	631	DEP FT1200	0.1	0.1		07/15/15 08:42	1
Turbidity	NTU	18	DEP FT1600	0.01	0.01		07/15/15 08:42	1
Water Elevation	ft., NGVD	18.19	DEP FS2211	0.01	0.01		07/15/15 08:42	1
Water Temperature	°C	28.4	DEP FT1400	0.1	0.1		07/15/15 08:42	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/18/15 00:06	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/18/15 00:06	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/18/15 00:06	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
1,4-Dichlorobenzene	ug/L	0.3 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/18/15 00:06	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		07/18/15 00:06	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		07/18/15 00:06	1
Acetone	ug/L	12	EPA 8260	4.0	2.0		07/18/15 00:06	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		07/18/15 00:06	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/18/15 00:06	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/18/15 00:06	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/18/15 00:06	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 00:06	1
Chlorobenzene	ug/L	1.0	EPA 8260	0.8	0.1		07/18/15 00:06	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		07/18/15 00:06	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-10 21602**
 Matrix **Groundwater**
 SAL Sample Number **1506679-11**
 Date/Time Collected **07/15/15 08:42**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:06	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 00:06	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/18/15 00:06	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:06	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:06	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:06	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/18/15 00:06	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:06	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:06	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/18/15 00:06	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:06	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/18/15 00:06	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:06	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:06	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/18/15 00:06	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:06	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:06	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 00:06	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/18/15 00:06	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/18/15 00:06	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:06	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:06	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	104 %	Limits	65-135				
Surrogate for EPA 8260	4-Bromofluorobenzene	96 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	104 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	96 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0053 u	EPA 8011	0.021	0.0053	07/23/15 16:30	07/24/15 08:00	1
1,2-Dibromoethane	ug/L	0.0053 u	EPA 8011	0.021	0.0053	07/23/15 16:30	07/24/15 08:00	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	114 %	Limits	82-126				

Inorganics

Ammonia as N	mg/L	2.1	EPA 350.1	0.20	0.047		07/17/15 14:14	5
Chloride	mg/L	11	SM 4500Cl-E	4.0	1.0		07/20/15 14:39	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-10 21602**
 Matrix **Groundwater**
 SAL Sample Number **1506679-11**
 Date/Time Collected **07/15/15 08:42**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.06 u	EPA 353.2	0.24	0.06		07/17/15 14:14	5
Nitrate+Nitrite (N)	mg/L	0.05 u	EPA 353.2	0.20	0.05		07/17/15 14:14	5
Nitrite (as N)	mg/L	0.01 u	SM 4500NO2-B	0.04	0.01	07/15/15 15:56	07/15/15 16:23	1
Total Dissolved Solids	mg/L	330	SM 2540C	10	10	07/20/15 08:13	07/21/15 18:37	1
Total Kjeldahl Nitrogen	mg/L	3.0	EPA 351.2	1.0	0.25	07/16/15 08:06	07/21/15 11:59	5
Total Nitrogen	mg/L	3.0	351.2+353.2	1.2	0.30	07/17/15 14:14	07/21/15 11:59	5
Metals								
Antimony	mg/L	0.021 l	EPA 6010	0.10	0.0070	07/16/15 10:43	07/16/15 14:02	1
Arsenic	mg/L	0.090	EPA 6010	0.010	0.0099	07/16/15 10:43	07/16/15 14:02	1
Barium	mg/L	0.021 l	EPA 6010	0.10	0.0050	07/16/15 10:43	07/16/15 14:02	1
Beryllium	ug/L	0.45 u	EPA 6010	1.0	0.45	07/16/15 10:43	07/16/15 14:02	1
Cadmium	mg/L	0.0010 u	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:02	1
Chromium	mg/L	0.0010 l	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:02	1
Cobalt	ug/L	10 u	EPA 6010	100	10	07/16/15 10:43	07/16/15 14:02	1
Copper	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:02	1
Iron	ug/L	5,800	EPA 6010	100	20	07/16/15 10:43	07/16/15 14:02	1
Lead	mg/L	0.0060 u	EPA 6010	0.10	0.0060	07/16/15 10:43	07/16/15 14:02	1
Mercury	ug/L	0.10 u	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:22	1
Nickel	mg/L	0.0012 u	EPA 6010	0.010	0.0012	07/16/15 10:43	07/16/15 14:02	1
Selenium	mg/L	0.049 l	EPA 6010	0.10	0.0080	07/16/15 10:43	07/16/15 14:02	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	07/16/15 10:43	07/16/15 14:02	1
Sodium	mg/L	7.1	EPA 6010	0.50	0.13	07/16/15 10:43	07/16/15 14:02	1
Thallium	mg/L	0.0050 u	EPA 6010	0.010	0.0050	07/16/15 10:43	07/16/15 14:02	1
Vanadium	ug/L	7.8 u	EPA 6010	10	7.8	07/16/15 10:43	07/16/15 14:02	1
Zinc	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:02	1



Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-11 21603**
 Matrix **Groundwater**
 SAL Sample Number **1506679-12**
 Date/Time Collected **07/15/15 09:21**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/15/15 09:21	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		07/15/15 09:21	1
pH	SU	6.3	DEP FT1100	0.1	0.1		07/15/15 09:21	1
Specific conductance	umhos/cm	524	DEP FT1200	0.1	0.1		07/15/15 09:21	1
Turbidity	NTU	1.5	DEP FT1600	0.01	0.01		07/15/15 09:21	1
Water Elevation	ft., NGVD	16.65	DEP FS2211	0.01	0.01		07/15/15 09:21	1
Water Temperature	°C	28.0	DEP FT1400	0.1	0.1		07/15/15 09:21	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/18/15 00:38	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:38	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:38	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/18/15 00:38	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/18/15 00:38	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/18/15 00:38	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/18/15 00:38	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/18/15 00:38	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:38	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:38	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/18/15 00:38	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:38	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 00:38	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-11 21603**
 Matrix **Groundwater**
 SAL Sample Number **1506679-12**
 Date/Time Collected **07/15/15 09:21**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 00:38	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/18/15 00:38	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:38	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/18/15 00:38	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/18/15 00:38	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:38	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/18/15 00:38	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:38	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/18/15 00:38	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 00:38	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/18/15 00:38	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/18/15 00:38	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 00:38	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 00:38	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	101 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	97 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	106 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	98 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/23/15 16:30	07/24/15 08:23	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/23/15 16:30	07/24/15 08:23	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	119 %	Limits		82-126			

Inorganics

Ammonia as N	mg/L	0.15	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	31	SM 4500Cl-E	4.0	1.0		07/20/15 14:42	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-11 21603**
 Matrix **Groundwater**
 SAL Sample Number **1506679-12**
 Date/Time Collected **07/15/15 09:21**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.02 u	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.01 u	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 u	SM 4500NO2-B	0.04	0.01	07/15/15 15:56	07/15/15 16:24	1
Total Dissolved Solids	mg/L	340	SM 2540C	10	10	07/20/15 08:13	07/21/15 18:37	1
Total Kjeldahl Nitrogen	mg/L	1.3	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	1.3	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1
Metals								
Antimony	mg/L	0.022 l	EPA 6010	0.10	0.0070	07/16/15 10:43	07/16/15 14:06	1
Arsenic	mg/L	0.0099 u	EPA 6010	0.010	0.0099	07/16/15 10:43	07/16/15 14:06	1
Barium	mg/L	0.013 l	EPA 6010	0.10	0.0050	07/16/15 10:43	07/16/15 14:06	1
Beryllium	ug/L	0.45 u	EPA 6010	1.0	0.45	07/16/15 10:43	07/16/15 14:06	1
Cadmium	mg/L	0.0010 u	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:06	1
Chromium	mg/L	0.0016 l	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:06	1
Cobalt	ug/L	10 u	EPA 6010	100	10	07/16/15 10:43	07/16/15 14:06	1
Copper	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:06	1
Iron	ug/L	1,400	EPA 6010	100	20	07/16/15 10:43	07/16/15 14:06	1
Lead	mg/L	0.0060 u	EPA 6010	0.10	0.0060	07/16/15 10:43	07/16/15 14:06	1
Mercury	ug/L	0.10 u	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:23	1
Nickel	mg/L	0.0012 u	EPA 6010	0.010	0.0012	07/16/15 10:43	07/16/15 14:06	1
Selenium	mg/L	0.051 l	EPA 6010	0.10	0.0080	07/16/15 10:43	07/16/15 14:06	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	07/16/15 10:43	07/16/15 14:06	1
Sodium	mg/L	18	EPA 6010	0.50	0.13	07/16/15 10:43	07/16/15 14:06	1
Thallium	mg/L	0.0050 u	EPA 6010	0.010	0.0050	07/16/15 10:43	07/16/15 14:06	1
Vanadium	ug/L	7.8 u	EPA 6010	10	7.8	07/16/15 10:43	07/16/15 14:06	1
Zinc	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:06	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-12 21604**
 Matrix **Groundwater**
 SAL Sample Number **1506679-13**
 Date/Time Collected **07/15/15 10:09**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/15/15 10:09	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		07/15/15 10:09	1
pH	SU	6.2	DEP FT1100	0.1	0.1		07/15/15 10:09	1
Specific conductance	umhos/cm	747	DEP FT1200	0.1	0.1		07/15/15 10:09	1
Turbidity	NTU	2.6	DEP FT1600	0.01	0.01		07/15/15 10:09	1
Water Elevation	ft., NGVD	21.82	DEP FS2211	0.01	0.01		07/15/15 10:09	1
Water Temperature	°C	26.1	DEP FT1400	0.1	0.1		07/15/15 10:09	1
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/18/15 01:09	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:09	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:09	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/18/15 01:09	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/18/15 01:09	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/18/15 01:09	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/18/15 01:09	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/18/15 01:09	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:09	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:09	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/18/15 01:09	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:09	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 01:09	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-12 21604**
 Matrix **Groundwater**
 SAL Sample Number **1506679-13**
 Date/Time Collected **07/15/15 10:09**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 01:09	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/18/15 01:09	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:09	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/18/15 01:09	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/18/15 01:09	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:09	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/18/15 01:09	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:09	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/18/15 01:09	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 01:09	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/18/15 01:09	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/18/15 01:09	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:09	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:09	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	100 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	94 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	107 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	98 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/23/15 16:30	07/24/15 09:57	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/23/15 16:30	07/24/15 09:57	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	107 %	Limits		82-126			

Inorganics

Ammonia as N	mg/L	0.43	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	9.2	SM 4500Cl-E	4.0	1.0		07/20/15 14:42	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-12 21604**
 Matrix **Groundwater**
 SAL Sample Number **1506679-13**
 Date/Time Collected **07/15/15 10:09**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.86	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.88	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.02 I	SM 4500NO2-B	0.04	0.01	07/15/15 15:56	07/15/15 16:24	1
Total Dissolved Solids	mg/L	460	SM 2540C	10	10	07/20/15 08:13	07/21/15 18:37	1
Total Kjeldahl Nitrogen	mg/L	1.3	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	2.2	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1
Metals								
Antimony	mg/L	0.028 I	EPA 6010	0.10	0.0070	07/16/15 10:43	07/16/15 14:16	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/16/15 10:43	07/16/15 14:16	1
Barium	mg/L	0.042 I	EPA 6010	0.10	0.0050	07/16/15 10:43	07/16/15 14:16	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/16/15 10:43	07/16/15 14:16	1
Cadmium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:16	1
Chromium	mg/L	0.0017 I	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:16	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/16/15 10:43	07/16/15 14:16	1
Copper	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:16	1
Iron	ug/L	3,500	EPA 6010	100	20	07/16/15 10:43	07/16/15 14:16	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/16/15 10:43	07/16/15 14:16	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:24	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/16/15 10:43	07/16/15 14:16	1
Selenium	mg/L	0.079 I	EPA 6010	0.10	0.0080	07/16/15 10:43	07/16/15 14:16	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/16/15 10:43	07/16/15 14:16	1
Sodium	mg/L	7.1	EPA 6010	0.50	0.13	07/16/15 10:43	07/16/15 14:16	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/16/15 10:43	07/16/15 14:16	1
Vanadium	ug/L	21	EPA 6010	10	7.8	07/16/15 10:43	07/16/15 14:16	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:16	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-13 21605**
 Matrix **Groundwater**
 SAL Sample Number **1506679-14**
 Date/Time Collected **07/15/15 10:42**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/15/15 10:42	1
Dissolved Oxygen	mg/L	0.9	DEP FT1500	0.1	0.1		07/15/15 10:42	1
pH	SU	6.5	DEP FT1100	0.1	0.1		07/15/15 10:42	1
Specific conductance	umhos/cm	1,150	DEP FT1200	0.1	0.1		07/15/15 10:42	1
Turbidity	NTU	4.2	DEP FT1600	0.01	0.01		07/15/15 10:42	1
Water Elevation	ft., NGVD	24.57	DEP FS2211	0.01	0.01		07/15/15 10:42	1
Water Temperature	°C	25.1	DEP FT1400	0.1	0.1		07/15/15 10:42	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/18/15 01:41	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:41	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:41	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/18/15 01:41	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/18/15 01:41	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/18/15 01:41	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/18/15 01:41	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/18/15 01:41	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:41	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:41	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/18/15 01:41	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:41	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 01:41	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description **GW-13 21605**
 Matrix **Groundwater**
 SAL Sample Number **1506679-14**
 Date/Time Collected **07/15/15 10:42**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 01:41	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/18/15 01:41	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:41	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/18/15 01:41	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/18/15 01:41	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:41	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/18/15 01:41	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:41	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/18/15 01:41	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 01:41	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/18/15 01:41	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/18/15 01:41	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 01:41	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 01:41	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	108 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	92 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	110 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	99 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/23/15 16:30	07/24/15 10:22	1
1,2-Dibromoethane	ug/L	0.0054 u	EPA 8011	0.022	0.0054	07/23/15 16:30	07/24/15 10:22	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	114 %	Limits		82-126			

Inorganics

Ammonia as N	mg/L	5.2	EPA 350.1	0.20	0.047		07/17/15 14:14	5
Chloride	mg/L	19	SM 4500Cl-E	4.0	1.0		07/20/15 14:43	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-13 21605**
 Matrix **Groundwater**
 SAL Sample Number **1506679-14**
 Date/Time Collected **07/15/15 10:42**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.08 I	EPA 353.2	0.24	0.06		07/17/15 14:14	5
Nitrate+Nitrite (N)	mg/L	0.08 I	EPA 353.2	0.20	0.05		07/17/15 14:14	5
Nitrite (as N)	mg/L	0.01 U	SM 4500NO2-B	0.04	0.01	07/15/15 15:56	07/15/15 16:27	1
Total Dissolved Solids	mg/L	640	SM 2540C	10	10	07/20/15 08:13	07/21/15 18:37	1
Total Kjeldahl Nitrogen	mg/L	5.8	EPA 351.2	1.0	0.25	07/16/15 08:06	07/21/15 11:59	5
Total Nitrogen	mg/L	5.9	351.2+353.2	1.2	0.30	07/17/15 14:14	07/21/15 11:59	5
Metals								
Antimony	mg/L	0.025 I	EPA 6010	0.10	0.0070	07/16/15 10:43	07/16/15 14:28	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/16/15 10:43	07/16/15 14:28	1
Barium	mg/L	0.025 I	EPA 6010	0.10	0.0050	07/16/15 10:43	07/16/15 14:28	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/16/15 10:43	07/16/15 14:28	1
Cadmium	mg/L	0.0012 I	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:28	1
Chromium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:28	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/16/15 10:43	07/16/15 14:28	1
Copper	mg/L	0.0031 I	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:28	1
Iron	ug/L	3,500	EPA 6010	100	20	07/16/15 10:43	07/16/15 14:28	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/16/15 10:43	07/16/15 14:28	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:26	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/16/15 10:43	07/16/15 14:28	1
Selenium	mg/L	0.085 I	EPA 6010	0.10	0.0080	07/16/15 10:43	07/16/15 14:28	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/16/15 10:43	07/16/15 14:28	1
Sodium	mg/L	18	EPA 6010	0.50	0.13	07/16/15 10:43	07/16/15 14:28	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/16/15 10:43	07/16/15 14:28	1
Vanadium	ug/L	7.9 I	EPA 6010	10	7.8	07/16/15 10:43	07/16/15 14:28	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:28	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-14 21606**
 Matrix **Groundwater**
 SAL Sample Number **1506679-15**
 Date/Time Collected **07/15/15 11:27**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/15/15 11:27	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		07/15/15 11:27	1
pH	SU	6.4	DEP FT1100	0.1	0.1		07/15/15 11:27	1
Specific conductance	umhos/cm	1,554	DEP FT1200	0.1	0.1		07/15/15 11:27	1
Turbidity	NTU	1.6	DEP FT1600	0.01	0.01		07/15/15 11:27	1
Water Elevation	ft., NGVD	19.48	DEP FS2211	0.01	0.01		07/15/15 11:27	1
Water Temperature	°C	26.8	DEP FT1400	0.1	0.1		07/15/15 11:27	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/18/15 02:12	1
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/18/15 02:12	1
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/18/15 02:12	1
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/18/15 02:12	1
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		07/18/15 02:12	1
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		07/18/15 02:12	1
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		07/18/15 02:12	1
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		07/18/15 02:12	1
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/18/15 02:12	1
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		07/18/15 02:12	1
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		07/18/15 02:12	1
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		07/18/15 02:12	1
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		07/18/15 02:12	1
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		07/18/15 02:12	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-14 21606**
 Matrix **Groundwater**
 SAL Sample Number **1506679-15**
 Date/Time Collected **07/15/15 11:27**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 02:12	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 02:12	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/18/15 02:12	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 02:12	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 02:12	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 02:12	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/18/15 02:12	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 02:12	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 02:12	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/18/15 02:12	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 02:12	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/18/15 02:12	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 02:12	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 02:12	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/18/15 02:12	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 02:12	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 02:12	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/18/15 02:12	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/18/15 02:12	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/18/15 02:12	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/18/15 02:12	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/18/15 02:12	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	102 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	93 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	107 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	95 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0057 u	EPA 8011	0.023	0.0057	07/28/15 16:40	07/29/15 06:33	1
1,2-Dibromoethane	ug/L	0.0057 u	EPA 8011	0.023	0.0057	07/28/15 16:40	07/29/15 06:33	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	96 %	Limits		82-126			

Inorganics

Ammonia as N	mg/L	0.49	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	58	SM 4500Cl-E	8.0	2.0		07/20/15 15:21	2

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-14 21606**
 Matrix **Groundwater**
 SAL Sample Number **1506679-15**
 Date/Time Collected **07/15/15 11:27**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.02 I	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.02 I	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 U	SM 4500NO2-B	0.04	0.01	07/15/15 15:56	07/15/15 16:27	1
Total Dissolved Solids	mg/L	1,100	SM 2540C	10	10	07/20/15 08:13	07/21/15 18:37	1
Total Kjeldahl Nitrogen	mg/L	1.0	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	1.0	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1
Metals								
Antimony	mg/L	0.030 I	EPA 6010	0.10	0.0070	07/16/15 10:43	07/16/15 14:31	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/16/15 10:43	07/16/15 14:31	1
Barium	mg/L	0.053 I	EPA 6010	0.10	0.0050	07/16/15 10:43	07/16/15 14:31	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/16/15 10:43	07/16/15 14:31	1
Cadmium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:31	1
Chromium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:31	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/16/15 10:43	07/16/15 14:31	1
Copper	mg/L	0.0034 I	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:31	1
Iron	ug/L	2,300	EPA 6010	100	20	07/16/15 10:43	07/16/15 14:31	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/16/15 10:43	07/16/15 14:31	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:30	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/16/15 10:43	07/16/15 14:31	1
Selenium	mg/L	0.081 I	EPA 6010	0.10	0.0080	07/16/15 10:43	07/16/15 14:31	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/16/15 10:43	07/16/15 14:31	1
Sodium	mg/L	28	EPA 6010	0.50	0.13	07/16/15 10:43	07/16/15 14:31	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/16/15 10:43	07/16/15 14:31	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	07/16/15 10:43	07/16/15 14:31	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:31	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-15 21607**
 Matrix **Groundwater**
 SAL Sample Number **1506679-16**
 Date/Time Collected **07/15/15 11:58**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/15/15 11:58	1
Dissolved Oxygen	mg/L	0.1	DEP FT1500	0.1	0.1		07/15/15 11:58	1
pH	SU	6.1	DEP FT1100	0.1	0.1		07/15/15 11:58	1
Specific conductance	umhos/cm	813	DEP FT1200	0.1	0.1		07/15/15 11:58	1
Turbidity	NTU	1.4	DEP FT1600	0.01	0.01		07/15/15 11:58	1
Water Elevation	ft., NGVD	22.33	DEP FS2211	0.01	0.01		07/15/15 11:58	1
Water Temperature	°C	26.2	DEP FT1400	0.1	0.1		07/15/15 11:58	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 13:04	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 13:04	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 13:04	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 13:04	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/20/15 13:04	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/20/15 13:04	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 13:04	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/20/15 13:04	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 13:04	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 13:04	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 13:04	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 13:04	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 13:04	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-15 21607**
 Matrix **Groundwater**
 SAL Sample Number **1506679-16**
 Date/Time Collected **07/15/15 11:58**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 13:04	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 13:04	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 13:04	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/20/15 13:04	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/20/15 13:04	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 13:04	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 13:04	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 13:04	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/20/15 13:04	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 13:04	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/20/15 13:04	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/20/15 13:04	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 13:04	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 13:04	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	102 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	94 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	103 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	98 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/24/15 16:00	07/25/15 10:16	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/24/15 16:00	07/25/15 10:16	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	93 %	Limits		82-126			

Inorganics

Ammonia as N	mg/L	0.99	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	93	SM 4500Cl-E	8.0	2.0		07/20/15 14:44	2

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-15 21607**
 Matrix **Groundwater**
 SAL Sample Number **1506679-16**
 Date/Time Collected **07/15/15 11:58**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.10	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.10	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 U	SM 4500NO2-B	0.04	0.01	07/15/15 15:56	07/15/15 16:28	1
Total Dissolved Solids	mg/L	490	SM 2540C	10	10	07/20/15 08:13	07/21/15 18:37	1
Total Kjeldahl Nitrogen	mg/L	2.3	EPA 351.2	1.0	0.25	07/16/15 08:06	07/21/15 11:59	5
Total Nitrogen	mg/L	2.4	351.2+353.2	1.0	0.26	07/17/15 14:14	07/21/15 11:59	5
Metals								
Antimony	mg/L	0.020 I	EPA 6010	0.10	0.0070	07/16/15 10:43	07/16/15 14:37	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/16/15 10:43	07/16/15 14:37	1
Barium	mg/L	0.063 I	EPA 6010	0.10	0.0050	07/16/15 10:43	07/16/15 14:37	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/16/15 10:43	07/16/15 14:37	1
Cadmium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:37	1
Chromium	mg/L	0.0038 I	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:37	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/16/15 10:43	07/16/15 14:37	1
Copper	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:37	1
Iron	ug/L	21,000	EPA 6010	100	20	07/16/15 10:43	07/16/15 14:37	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/16/15 10:43	07/16/15 14:37	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:32	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/16/15 10:43	07/16/15 14:37	1
Selenium	mg/L	0.042 I	EPA 6010	0.10	0.0080	07/16/15 10:43	07/16/15 14:37	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/16/15 10:43	07/16/15 14:37	1
Sodium	mg/L	42	EPA 6010	0.50	0.13	07/16/15 10:43	07/16/15 14:37	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/16/15 10:43	07/16/15 14:37	1
Vanadium	ug/L	20	EPA 6010	10	7.8	07/16/15 10:43	07/16/15 14:37	1
Zinc	mg/L	0.0064 I	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:37	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-16 21608**
 Matrix **Groundwater**
 SAL Sample Number **1506679-17**
 Date/Time Collected **07/15/15 12:44**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/15/15 12:44	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		07/15/15 12:44	1
pH	SU	6.1	DEP FT1100	0.1	0.1		07/15/15 12:44	1
Specific conductance	umhos/cm	431	DEP FT1200	0.1	0.1		07/15/15 12:44	1
Turbidity	NTU	33	DEP FT1600	0.01	0.01		07/15/15 12:44	1
Water Elevation	ft., NGVD	24.26	DEP FS2211	0.01	0.01		07/15/15 12:44	1
Water Temperature	°C	27.1	DEP FT1400	0.1	0.1		07/15/15 12:44	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 14:08	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:08	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:08	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 14:08	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/20/15 14:08	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/20/15 14:08	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 14:08	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/20/15 14:08	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:08	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:08	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 14:08	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:08	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 14:08	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-16 21608**
 Matrix **Groundwater**
 SAL Sample Number **1506679-17**
 Date/Time Collected **07/15/15 12:44**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 14:08	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 14:08	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:08	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/20/15 14:08	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/20/15 14:08	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:08	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 14:08	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:08	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/20/15 14:08	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 14:08	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/20/15 14:08	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/20/15 14:08	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:08	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:08	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	105 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	95 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	104 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	101 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/24/15 16:00	07/25/15 10:39	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/24/15 16:00	07/25/15 10:39	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	103 %	Limits		82-126			

Inorganics

Ammonia as N	mg/L	0.35	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	27	SM 4500Cl-E	4.0	1.0		07/20/15 13:12	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-16 21608**
 Matrix **Groundwater**
 SAL Sample Number **1506679-17**
 Date/Time Collected **07/15/15 12:44**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate (as N)	mg/L	0.05 I	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.05	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 U	SM 4500NO2-B	0.04	0.01	07/15/15 15:56	07/15/15 16:28	1
Total Dissolved Solids	mg/L	280	SM 2540C	10	10	07/20/15 08:13	07/21/15 18:37	1
Total Kjeldahl Nitrogen	mg/L	0.98	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	1.0	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1

Metals

Antimony	mg/L	0.0082 I	EPA 6010	0.10	0.0070	07/16/15 10:43	07/16/15 14:40	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/16/15 10:43	07/16/15 14:40	1
Barium	mg/L	0.025 I	EPA 6010	0.10	0.0050	07/16/15 10:43	07/16/15 14:40	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/16/15 10:43	07/16/15 14:40	1
Cadmium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:40	1
Chromium	mg/L	0.0041 I	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:40	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/16/15 10:43	07/16/15 14:40	1
Copper	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:40	1
Iron	ug/L	480	EPA 6010	100	20	07/16/15 10:43	07/16/15 14:40	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/16/15 10:43	07/16/15 14:40	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:33	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/16/15 10:43	07/16/15 14:40	1
Selenium	mg/L	0.028 I	EPA 6010	0.10	0.0080	07/16/15 10:43	07/16/15 14:40	1
Silver	ug/L	1.3 I	EPA 6010	20	1.1	07/16/15 10:43	07/16/15 14:40	1
Sodium	mg/L	44	EPA 6010	0.50	0.13	07/16/15 10:43	07/16/15 14:40	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/16/15 10:43	07/16/15 14:40	1
Vanadium	ug/L	12	EPA 6010	10	7.8	07/16/15 10:43	07/16/15 14:40	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:40	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-17 21609**
 Matrix **Groundwater**
 SAL Sample Number **1506679-18**
 Date/Time Collected **07/15/15 13:25**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Field Parameters

Color (Observation)		Cloudy Tannic	DEP SOPs				07/15/15 13:25	1
Dissolved Oxygen	mg/L	0.2	DEP FT1500	0.1	0.1		07/15/15 13:25	1
pH	SU	5.1	DEP FT1100	0.1	0.1		07/15/15 13:25	1
Specific conductance	umhos/cm	178	DEP FT1200	0.1	0.1		07/15/15 13:25	1
Turbidity	NTU	4.9	DEP FT1600	0.01	0.01		07/15/15 13:25	1
Water Elevation	ft., NGVD	21.39	DEP FS2211	0.01	0.01		07/15/15 13:25	1
Water Temperature	°C	26.6	DEP FT1400	0.1	0.1		07/15/15 13:25	1

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 14:40	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:40	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:40	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 14:40	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/20/15 14:40	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/20/15 14:40	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 14:40	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/20/15 14:40	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:40	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:40	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 14:40	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:40	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-17 21609**
 Matrix **Groundwater**
 SAL Sample Number **1506679-18**
 Date/Time Collected **07/15/15 13:25**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 14:40	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 14:40	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 14:40	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:40	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/20/15 14:40	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/20/15 14:40	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:40	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 14:40	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:40	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/20/15 14:40	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 14:40	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/20/15 14:40	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/20/15 14:40	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 14:40	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 14:40	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	102 %	Limits	65-135				
Surrogate for EPA 8260	4-Bromofluorobenzene	95 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	106 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	98 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	07/24/15 16:00	07/25/15 11:02	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	07/24/15 16:00	07/25/15 11:02	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	103 %	Limits	82-126				

Inorganics

Ammonia as N	mg/L	1.2	EPA 350.1	0.040	0.009		07/17/15 14:14	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **GW-17 21609**
 Matrix **Groundwater**
 SAL Sample Number **1506679-18**
 Date/Time Collected **07/15/15 13:25**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloride	mg/L	4.7	SM 4500Cl-E	4.0	1.0		07/20/15 14:44	1
Nitrate (as N)	mg/L	0.13	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.13	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 u	SM 4500NO2-B	0.04	0.01	07/15/15 15:56	07/15/15 16:29	1
Total Dissolved Solids	mg/L	170	SM 2540C	10	10	07/20/15 08:13	07/21/15 18:37	1
Total Kjeldahl Nitrogen	mg/L	2.0	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	2.2	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1

Metals

Antimony	mg/L	0.0070 u	EPA 6010	0.10	0.0070	07/16/15 10:43	07/16/15 14:43	1
Arsenic	mg/L	0.0099 u	EPA 6010	0.010	0.0099	07/16/15 10:43	07/16/15 14:43	1
Barium	mg/L	0.0052 l	EPA 6010	0.10	0.0050	07/16/15 10:43	07/16/15 14:43	1
Beryllium	ug/L	0.45 u	EPA 6010	1.0	0.45	07/16/15 10:43	07/16/15 14:43	1
Cadmium	mg/L	0.0010 u	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:43	1
Chromium	mg/L	0.0071 l	EPA 6010	0.010	0.0010	07/16/15 10:43	07/16/15 14:43	1
Cobalt	ug/L	10 u	EPA 6010	100	10	07/16/15 10:43	07/16/15 14:43	1
Copper	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:43	1
Iron	ug/L	9,900	EPA 6010	100	20	07/16/15 10:43	07/16/15 14:43	1
Lead	mg/L	0.0060 u	EPA 6010	0.10	0.0060	07/16/15 10:43	07/16/15 14:43	1
Mercury	ug/L	0.10 u	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:35	1
Nickel	mg/L	0.0012 u	EPA 6010	0.010	0.0012	07/16/15 10:43	07/16/15 14:43	1
Selenium	mg/L	0.013 l	EPA 6010	0.10	0.0080	07/16/15 10:43	07/16/15 14:43	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	07/16/15 10:43	07/16/15 14:43	1
Sodium	mg/L	4.0	EPA 6010	0.50	0.13	07/16/15 10:43	07/16/15 14:43	1
Thallium	mg/L	0.0050 u	EPA 6010	0.010	0.0050	07/16/15 10:43	07/16/15 14:43	1
Vanadium	ug/L	28	EPA 6010	10	7.8	07/16/15 10:43	07/16/15 14:43	1
Zinc	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/16/15 10:43	07/16/15 14:43	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **BGW-1 Duplicate**
 Matrix **Groundwater**
 SAL Sample Number **1506679-19**
 Date/Time Collected **07/14/15 09:30**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/14/15 09:30	1
Dissolved Oxygen	mg/L	0.6	DEP FT1500	0.1	0.1		07/14/15 09:30	1
pH	SU	5.9	DEP FT1100	0.1	0.1		07/14/15 09:30	1
Specific conductance	umhos/cm	528	DEP FT1200	0.1	0.1		07/14/15 09:30	1
Turbidity	NTU	0.55	DEP FT1600	0.01	0.01		07/14/15 09:30	1
Water Temperature	°C	26.1	DEP FT1400	0.1	0.1		07/14/15 09:30	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 15:13	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:13	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:13	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 15:13	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/20/15 15:13	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/20/15 15:13	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 15:13	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/20/15 15:13	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:13	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:13	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 15:13	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:13	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 15:13	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description **BGW-1 Duplicate**
Matrix **Groundwater**
SAL Sample Number **1506679-19**
Date/Time Collected **07/14/15 09:30**
Collected by **Ian Gerald**
Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 15:13	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 15:13	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:13	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/20/15 15:13	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/20/15 15:13	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:13	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 15:13	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:13	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/20/15 15:13	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 15:13	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/20/15 15:13	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/20/15 15:13	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:13	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:13	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	99 %	Limits	65-135				
Surrogate for EPA 8260	4-Bromofluorobenzene	93 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	103 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	96 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	07/24/15 16:00	07/25/15 06:45	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	07/24/15 16:00	07/25/15 06:45	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	103 %	Limits	82-126				

Inorganics

Ammonia as N	mg/L	2.5	EPA 350.1	0.20	0.047		07/17/15 14:14	5
Chloride	mg/L	33	SM 4500Cl-E	4.0	1.0		07/15/15 11:03	1
Nitrate (as N)	mg/L	0.02 I	EPA 353.2	0.08	0.02		07/17/15 14:14	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **BGW-1 Duplicate**
 Matrix **Groundwater**
 SAL Sample Number **1506679-19**
 Date/Time Collected **07/14/15 09:30**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate+Nitrite (N)	mg/L	0.02 I	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 U	SM 4500NO2-B	0.04	0.01		07/15/15 10:30	1
Total Dissolved Solids	mg/L	360	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Kjeldahl Nitrogen	mg/L	2.8	EPA 351.2	1.0	0.25	07/16/15 08:06	07/21/15 11:59	5
Total Nitrogen	mg/L	2.9	351.2+353.2	1.0	0.26	07/17/15 14:14	07/21/15 11:59	5

Metals

Antimony	mg/L	0.011 I	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:44	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:44	1
Barium	mg/L	0.018 I	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:44	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:44	1
Cadmium	mg/L	0.0010 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:44	1
Chromium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:44	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:44	1
Copper	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:44	1
Iron	ug/L	4,000	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:44	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:44	1
Mercury	ug/L	0.10 U	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:36	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:44	1
Selenium	mg/L	0.027 I	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:44	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:44	1
Sodium	mg/L	32	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 14:44	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:44	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:44	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:44	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Field Blank**
 Matrix **Reagent Water**
 SAL Sample Number **1506679-20**
 Date/Time Collected **07/14/15 08:53**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Clear	DEP SOPs				07/14/15 08:53	1
Dissolved Oxygen	mg/L	2.4	DEP FT1500	0.1	0.1		07/14/15 08:53	1
pH	SU	8.3	DEP FT1100	0.1	0.1		07/14/15 08:53	1
Specific conductance	umhos/cm	6	DEP FT1200	0.1	0.1		07/14/15 08:53	1
Turbidity	NTU	0.10	DEP FT1600	0.01	0.01		07/14/15 08:53	1
Water Temperature	°C	28.8	DEP FT1400	0.1	0.1		07/14/15 08:53	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 15:52	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:52	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:52	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 15:52	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/20/15 15:52	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/20/15 15:52	1
Acetone	ug/L	8.1	EPA 8260	4.0	2.0		07/20/15 15:52	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/20/15 15:52	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:52	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:52	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 15:52	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:52	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 15:52	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Field Blank
Matrix	Reagent Water
SAL Sample Number	1506679-20
Date/Time Collected	07/14/15 08:53
Collected by	Ian Gerald
Date/Time Received	07/14/15 17:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 15:52	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 15:52	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:52	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/20/15 15:52	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/20/15 15:52	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:52	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 15:52	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:52	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/20/15 15:52	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 15:52	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/20/15 15:52	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/20/15 15:52	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 15:52	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 15:52	1
<i>Surrogate for EPA 8260</i>	<i>1,2-Dichloroethane-d4</i>	<i>104 %</i>	<i>Limits</i>	<i>65-135</i>				
<i>Surrogate for EPA 8260</i>	<i>4-Bromofluorobenzene</i>	<i>94 %</i>	<i>Limits</i>	<i>65-135</i>				
<i>Surrogate for EPA 8260</i>	<i>Dibromofluoromethane</i>	<i>104 %</i>	<i>Limits</i>	<i>65-135</i>				
<i>Surrogate for EPA 8260</i>	<i>Toluene-d8</i>	<i>96 %</i>	<i>Limits</i>	<i>65-135</i>				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	07/24/15 16:00	07/25/15 07:09	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	07/24/15 16:00	07/25/15 07:09	1
<i>Surrogate for EPA 8011</i>	<i>2-Bromo-1-chloropropane</i>	<i>100 %</i>	<i>Limits</i>	<i>82-126</i>				

Inorganics

Ammonia as N	mg/L	0.009 u	EPA 350.1	0.040	0.009		07/17/15 14:14	1
Chloride	mg/L	1.0 u	SM 4500Cl-E	4.0	1.0		07/15/15 11:04	1
Nitrate (as N)	mg/L	0.02 u	EPA 353.2	0.08	0.02		07/17/15 14:14	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Field Blank**
 Matrix **Reagent Water**
 SAL Sample Number **1506679-20**
 Date/Time Collected **07/14/15 08:53**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Nitrate+Nitrite (N)	mg/L	0.01 u	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 u	SM	0.04	0.01		07/15/15 10:30	1
			4500NO2-B					
Total Dissolved Solids	mg/L	89	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Kjeldahl Nitrogen	mg/L	0.10 l	EPA 351.2	0.20	0.05	07/16/15 08:06	07/21/15 11:59	1
Total Nitrogen	mg/L	0.10 l	351.2+353.2	0.24	0.06	07/17/15 14:14	07/21/15 11:59	1

Metals

Antimony	mg/L	0.0070 u	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:47	1
Arsenic	mg/L	0.0099 u	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:47	1
Barium	mg/L	0.0050 u	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:47	1
Beryllium	ug/L	0.45 u	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:47	1
Cadmium	mg/L	0.0010 u	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:47	1
Chromium	mg/L	0.0010 u	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:47	1
Cobalt	ug/L	10 u	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:47	1
Copper	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:47	1
Iron	ug/L	20 u	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:47	1
Lead	mg/L	0.0060 u	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:47	1
Mercury	ug/L	0.10 u	EPA 7470	0.50	0.10	07/28/15 07:39	07/28/15 16:37	1
Nickel	mg/L	0.0012 u	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:47	1
Selenium	mg/L	0.0080 u	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:47	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:47	1
Sodium	mg/L	0.13 u	EPA 6010	0.50	0.13	07/15/15 09:34	07/15/15 14:47	1
Thallium	mg/L	0.0050 u	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:47	1
Vanadium	ug/L	7.8 u	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:47	1
Zinc	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:47	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Trip Blank
Matrix	Reagent Water
SAL Sample Number	1506679-21
Date/Time Collected	07/10/15 10:30
Collected by	Melissa McLaughlin
Date/Time Received	07/14/15 17:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 16:24	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:24	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:24	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 16:24	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/20/15 16:24	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/20/15 16:24	1
Acetone	ug/L	2.1 u	EPA 8260	4.0	2.0		07/20/15 16:24	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/20/15 16:24	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:24	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:24	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 16:24	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:24	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 16:24	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 16:24	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 16:24	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:24	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/20/15 16:24	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	Trip Blank
Matrix	Reagent Water
SAL Sample Number	1506679-21
Date/Time Collected	07/10/15 10:30
Collected by	Melissa McLaughlin
Date/Time Received	07/14/15 17:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/20/15 16:24	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:24	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 16:24	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:24	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/20/15 16:24	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 16:24	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/20/15 16:24	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/20/15 16:24	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:24	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:24	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	100 %	Limits	65-135				
Surrogate for EPA 8260	4-Bromofluorobenzene	95 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	104 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	96 %	Limits	65-135				

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description	STORMWATER OVERFLOW @ NORTH WEIR (SW1) 1663
Matrix	Surface Water
SAL Sample Number	1506679-22
Date/Time Collected	07/14/15 15:00
Collected by	Ian Gerald
Date/Time Received	07/14/15 17:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/14/15 15:00	1
Dissolved Oxygen	mg/L	2.9	DEP FT1500	0.1	0.1		07/14/15 15:00	1
pH	SU	6.9	DEP FT1100	0.1	0.1		07/14/15 15:00	1
Specific conductance	umhos/cm	490	DEP FT1200	0.1	0.1		07/14/15 15:00	1
Turbidity	NTU	16	DEP FT1600	0.01	0.01		07/14/15 15:00	1
Water Temperature	°C	26.4	DEP FT1400	0.1	0.1		07/14/15 15:00	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 16:56	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:56	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:56	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 16:56	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/20/15 16:56	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/20/15 16:56	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 16:56	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/20/15 16:56	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:56	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:56	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 16:56	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:56	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 16:56	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **STORMWATER OVERFLOW @ NORTH WEIR (SW1) 1663**
 Matrix **Surface Water**
 SAL Sample Number **1506679-22**
 Date/Time Collected **07/14/15 15:00**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 16:56	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 16:56	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:56	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/20/15 16:56	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/20/15 16:56	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:56	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 16:56	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:56	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/20/15 16:56	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 16:56	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/20/15 16:56	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/20/15 16:56	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 16:56	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 16:56	1
<i>Surrogate for EPA 8260</i>	<i>1,2-Dichloroethane-d4</i>		<i>97 %</i>	<i>Limits</i>	<i>65-135</i>			
<i>Surrogate for EPA 8260</i>	<i>4-Bromofluorobenzene</i>		<i>93 %</i>	<i>Limits</i>	<i>65-135</i>			
<i>Surrogate for EPA 8260</i>	<i>Dibromofluoromethane</i>		<i>103 %</i>	<i>Limits</i>	<i>65-135</i>			
<i>Surrogate for EPA 8260</i>	<i>Toluene-d8</i>		<i>99 %</i>	<i>Limits</i>	<i>65-135</i>			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	07/24/15 16:00	07/25/15 07:32	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	07/24/15 16:00	07/25/15 07:32	1
<i>Surrogate for EPA 8011</i>	<i>2-Bromo-1-chloropropane</i>		<i>98 %</i>	<i>Limits</i>	<i>82-126</i>			

Inorganics

Ammonia-Unionized as NH3	mg/L	0.66	EPA 350.1	0.01	0.01		07/23/15 14:33	1
Biochemical Oxygen Demand	mg/L	14	SM 5210B	2	2	07/16/15 07:51	07/21/15 15:21	1
Chemical Oxygen Demand	mg/L	66	EPA 410.4	25	10	07/20/15 08:24	07/22/15 14:04	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description **STORMWATER OVERFLOW @ NORTH WEIR (SW1) 1663**
 Matrix **Surface Water**
 SAL Sample Number **1506679-22**
 Date/Time Collected **07/14/15 15:00**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chlorophyll a, Corrected	ug/L	2.0	SM 10200H	0.50	0.50	07/15/15 09:41	07/21/15 12:45	1
Nitrate (as N)	mg/L	0.23	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.30	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.07	SM 4500NO2-B	0.04	0.01		07/15/15 10:31	1
Phosphorous - Total as P	mg/L	0.62	SM 4500P-E	0.40	0.10	07/17/15 08:19	07/20/15 11:38	10
Total Dissolved Solids	mg/L	380	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Hardness as CaCO3	mg/L	190	SM 2340B	3.3	0.19	07/15/15 09:34	07/15/15 14:50	1
Total Kjeldahl Nitrogen	mg/L	4.7	EPA 351.2	2.0	0.50	07/17/15 08:19	07/20/15 11:38	10
Total Nitrogen	mg/L	5.0	351.2+353.2	2.0	0.51	07/17/15 14:14	07/20/15 11:38	10
Total Organic Carbon	mg/L	36	SM 5310B	1.0	0.060		07/21/15 15:44	1
Total Suspended Solids	mg/L	38	SM 2540D	1	1	07/20/15 10:04	07/21/15 18:11	1

Metals

Antimony	mg/L	0.018 I	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:50	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:50	1
Barium	mg/L	0.015 I	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:50	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:50	1
Cadmium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:50	1
Calcium	mg/L	53	EPA 200.7	0.50	0.042	07/15/15 09:34	07/15/15 14:50	1
Chromium	mg/L	0.0013 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:50	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:50	1
Copper	mg/L	0.0030 I	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:50	1
Iron	ug/L	3,600	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:50	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:50	1
Magnesium	mg/L	13	EPA 200.7	0.50	0.020	07/15/15 09:34	07/15/15 14:50	1
Mercury	ug/L	0.0032	EPA 1631	0.00040	0.00020	07/15/15 13:44	07/16/15 16:58	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:50	1
Selenium	mg/L	0.025 I	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:50	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:50	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:50	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:50	1
Zinc	mg/L	0.11	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:50	1

Microbiology

Fecal Coliforms	CFU/100 ml	1,800	SM 9222D	1	1	07/14/15 17:14	07/15/15 15:31	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description **Field Blank for SW-1 1663**
Matrix **Reagent Water**
SAL Sample Number **1506679-23**
Date/Time Collected **07/14/15 15:05**
Collected by **Ian Gerald**
Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Metals

Mercury	ug/L	0.00065	EPA 1631	0.00040	0.00020	07/15/15 13:44	07/16/15 16:58	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **STORMWATER OVERFLOW @ SOUTH WEIR (SW-2) 1665**
 Matrix **Surface Water**
 SAL Sample Number **1506679-24**
 Date/Time Collected **07/14/15 14:20**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/14/15 14:20	1
Dissolved Oxygen	mg/L	1.5	DEP FT1500	0.1	0.1		07/14/15 14:20	1
pH	SU	7.0	DEP FT1100	0.1	0.1		07/14/15 14:20	1
Specific conductance	umhos/cm	368	DEP FT1200	0.1	0.1		07/14/15 14:20	1
Turbidity	NTU	19	DEP FT1600	0.01	0.01		07/14/15 14:20	1
Water Temperature	°C	27.1	DEP FT1400	0.1	0.1		07/14/15 14:20	1
Volatiles Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 17:28	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 17:28	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 17:28	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 17:28	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/20/15 17:28	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/20/15 17:28	1
Acetone	ug/L	2.7 u	EPA 8260	4.0	2.0		07/20/15 17:28	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/20/15 17:28	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 17:28	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 17:28	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 17:28	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 17:28	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 17:28	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **STORMWATER OVERFLOW @ SOUTH WEIR (SW-2) 1665**
 Matrix **Surface Water**
 SAL Sample Number **1506679-24**
 Date/Time Collected **07/14/15 14:20**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 17:28	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 17:28	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 17:28	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/20/15 17:28	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/20/15 17:28	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 17:28	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 17:28	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 17:28	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/20/15 17:28	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 17:28	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/20/15 17:28	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/20/15 17:28	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 17:28	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 17:28	1
<i>Surrogate for EPA 8260</i>	<i>1,2-Dichloroethane-d4</i>	<i>99 %</i>	<i>Limits</i>	<i>65-135</i>				
<i>Surrogate for EPA 8260</i>	<i>4-Bromofluorobenzene</i>	<i>94 %</i>	<i>Limits</i>	<i>65-135</i>				
<i>Surrogate for EPA 8260</i>	<i>Dibromofluoromethane</i>	<i>104 %</i>	<i>Limits</i>	<i>65-135</i>				
<i>Surrogate for EPA 8260</i>	<i>Toluene-d8</i>	<i>99 %</i>	<i>Limits</i>	<i>65-135</i>				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/24/15 16:00	07/25/15 07:56	1
1,2-Dibromoethane	ug/L	0.0055 u	EPA 8011	0.022	0.0055	07/24/15 16:00	07/25/15 07:56	1
<i>Surrogate for EPA 8011</i>	<i>2-Bromo-1-chloropropane</i>	<i>99 %</i>	<i>Limits</i>	<i>82-126</i>				

Inorganics

Ammonia-Unionized as NH3	mg/L	0.15	EPA 350.1	0.01	0.01		07/23/15 14:33	1
Biochemical Oxygen Demand	mg/L	23	SM 5210B	2	2	07/16/15 07:51	07/21/15 15:21	1
Chemical Oxygen Demand	mg/L	150	EPA 410.4	25	10	07/20/15 08:24	07/22/15 14:04	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **STORMWATER OVERFLOW @ SOUTH WEIR (SW-2) 1665**
 Matrix **Surface Water**
 SAL Sample Number **1506679-24**
 Date/Time Collected **07/14/15 14:20**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chlorophyll a, Corrected	ug/L	35	SM 10200H	0.50	0.50	07/15/15 09:41	07/21/15 12:45	1
Nitrate (as N)	mg/L	0.11	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.13	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 I	SM 4500NO2-B	0.04	0.01		07/15/15 10:31	1
Phosphorous - Total as P	mg/L	0.95	SM 4500P-E	0.40	0.10	07/17/15 08:19	07/20/15 11:38	10
Total Dissolved Solids	mg/L	270	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Hardness as CaCO3	mg/L	120	SM 2340B	3.3	0.19	07/15/15 09:34	07/15/15 14:54	1
Total Kjeldahl Nitrogen	mg/L	6.3	EPA 351.2	2.0	0.50	07/17/15 08:19	07/20/15 11:38	10
Total Nitrogen	mg/L	6.4	351.2+353.2	2.0	0.51	07/17/15 14:14	07/20/15 11:38	10
Total Organic Carbon	mg/L	100	SM 5310B	1.0	0.060		07/21/15 15:44	1
Total Suspended Solids	mg/L	72	SM 2540D	1	1	07/20/15 10:04	07/21/15 18:11	1

Metals

Antimony	mg/L	0.014 I	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 14:54	1
Arsenic	mg/L	0.10	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 14:54	1
Barium	mg/L	0.024 I	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 14:54	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 14:54	1
Cadmium	mg/L	0.0010 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:54	1
Calcium	mg/L	30	EPA 200.7	0.50	0.042	07/15/15 09:34	07/15/15 14:54	1
Chromium	mg/L	0.0017 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 14:54	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/15/15 09:34	07/15/15 14:54	1
Copper	mg/L	0.011	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:54	1
Iron	ug/L	24,000	EPA 6010	100	20	07/15/15 09:34	07/15/15 14:54	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 14:54	1
Magnesium	mg/L	12	EPA 200.7	0.50	0.020	07/15/15 09:34	07/15/15 14:54	1
Mercury	ug/L	0.017	EPA 1631	0.00040	0.00020	07/15/15 13:44	07/16/15 16:58	1
Nickel	mg/L	0.0029 I	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 14:54	1
Selenium	mg/L	0.013 I	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 14:54	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 14:54	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 14:54	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 14:54	1
Zinc	mg/L	0.049	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 14:54	1

Microbiology

Fecal Coliforms	CFU/100 ml	6,800	SM 9222D	1	1	07/14/15 17:14	07/15/15 15:31	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Field Blank for SW-2 1663**
Matrix **Reagent Water**
SAL Sample Number **1506679-25**
Date/Time Collected **07/14/15 14:25**
Collected by **Ian Gerald**
Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Metals

Mercury	ug/L	0.0013	EPA 1631	0.00040	0.00020	07/15/15 13:44	07/16/15 16:58	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **North Weir Duplicate**
 Matrix **Surface Water**
 SAL Sample Number **1506679-26**
 Date/Time Collected **07/14/15 15:10**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Tannic	DEP SOPs				07/14/15 15:10	1
Dissolved Oxygen	mg/L	2.9	DEP FT1500	0.1	0.1		07/14/15 15:10	1
pH	SU	6.9	DEP FT1100	0.1	0.1		07/14/15 15:10	1
Specific conductance	umhos/cm	490	DEP FT1200	0.1	0.1		07/14/15 15:10	1
Turbidity	NTU	16	DEP FT1600	0.01	0.01		07/14/15 15:10	1
Water Temperature	°C	26.4	DEP FT1400	0.1	0.1		07/14/15 15:10	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 18:00	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:00	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:00	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 18:00	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/20/15 18:00	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/20/15 18:00	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 18:00	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/20/15 18:00	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:00	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:00	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 18:00	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:00	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 18:00	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description **North Weir Duplicate**
 Matrix **Surface Water**
 SAL Sample Number **1506679-26**
 Date/Time Collected **07/14/15 15:10**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 18:00	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 18:00	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:00	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/20/15 18:00	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/20/15 18:00	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:00	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 18:00	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:00	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/20/15 18:00	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 18:00	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/20/15 18:00	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/20/15 18:00	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:00	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:00	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	105 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	97 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	105 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	97 %	Limits		65-135			

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	07/24/15 16:00	07/25/15 09:06	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.022	0.0056	07/24/15 16:00	07/25/15 09:06	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	100 %	Limits		82-126			

Inorganics

Ammonia-Unionized as NH3	mg/L	0.66	EPA 350.1	0.01	0.01		07/23/15 14:33	1
Biochemical Oxygen Demand	mg/L	21	SM 5210B	2	2	07/16/15 07:51	07/21/15 15:21	1
Chemical Oxygen Demand	mg/L	62	EPA 410.4	25	10	07/20/15 08:24	07/22/15 14:04	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **North Weir Duplicate**
 Matrix **Surface Water**
 SAL Sample Number **1506679-26**
 Date/Time Collected **07/14/15 15:10**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chlorophyll a, Corrected	ug/L	2.8	SM 10200H	0.50	0.50	07/15/15 09:41	07/21/15 12:45	1
Nitrate (as N)	mg/L	0.23	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.30	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.07	SM 4500NO2-B	0.04	0.01		07/15/15 10:32	1
Phosphorous - Total as P	mg/L	0.62	SM 4500P-E	0.40	0.10	07/17/15 08:19	07/20/15 11:38	10
Total Dissolved Solids	mg/L	350	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Hardness as CaCO3	mg/L	190	SM 2340B	3.3	0.19	07/15/15 09:34	07/15/15 15:04	1
Total Kjeldahl Nitrogen	mg/L	4.5	EPA 351.2	2.0	0.50	07/17/15 08:19	07/20/15 11:38	10
Total Nitrogen	mg/L	4.8	351.2+353.2	2.0	0.51	07/17/15 14:14	07/20/15 11:38	10
Total Organic Carbon	mg/L	34	SM 5310B	1.0	0.060		07/21/15 15:44	1
Total Suspended Solids	mg/L	2	SM 2540D	1	1	07/20/15 10:04	07/21/15 18:11	1

Metals

Antimony	mg/L	0.014 I	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 15:04	1
Arsenic	mg/L	0.0099 U	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 15:04	1
Barium	mg/L	0.015 I	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 15:04	1
Beryllium	ug/L	0.45 U	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 15:04	1
Cadmium	mg/L	0.0011 I	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 15:04	1
Calcium	mg/L	53	EPA 200.7	0.50	0.042	07/15/15 09:34	07/15/15 15:04	1
Chromium	mg/L	0.0010 U	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 15:04	1
Cobalt	ug/L	10 U	EPA 6010	100	10	07/15/15 09:34	07/15/15 15:04	1
Copper	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 15:04	1
Iron	ug/L	3,700	EPA 6010	100	20	07/15/15 09:34	07/15/15 15:04	1
Lead	mg/L	0.0060 U	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 15:04	1
Magnesium	mg/L	13	EPA 200.7	0.50	0.020	07/15/15 09:34	07/15/15 15:04	1
Mercury	ug/L	0.0032	EPA 1631	0.00040	0.00020	07/15/15 13:44	07/16/15 16:58	1
Nickel	mg/L	0.0012 U	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 15:04	1
Selenium	mg/L	0.021 I	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 15:04	1
Silver	ug/L	1.1 U	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 15:04	1
Thallium	mg/L	0.0050 U	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 15:04	1
Vanadium	ug/L	7.8 U	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 15:04	1
Zinc	mg/L	0.0030 U	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 15:04	1

Microbiology

Fecal Coliforms	CFU/100 ml	1,100	SM 9222D	1	1	07/14/15 17:14	07/15/15 15:31	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Field Blank for Duplicate**
Matrix **Reagent Water**
SAL Sample Number **1506679-27**
Date/Time Collected **07/14/15 15:15**
Collected by **Ian Gerald**
Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Metals

Mercury	ug/L	0.0014	EPA 1631	0.00040	0.00020	07/15/15 13:44	07/16/15 16:58	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Field Blank2**
 Matrix **Reagent Water**
 SAL Sample Number **1506679-28**
 Date/Time Collected **07/14/15 14:05**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Field Parameters								
Color (Observation)		Clear	DEP SOPs				07/14/15 14:05	1
Dissolved Oxygen	mg/L	1.3	DEP FT1500	0.1	0.1		07/14/15 14:05	1
pH	SU	8.5	DEP FT1100	0.1	0.1		07/14/15 14:05	1
Specific conductance	umhos/cm	9	DEP FT1200	0.1	0.1		07/14/15 14:05	1
Turbidity	NTU	0.25	DEP FT1600	0.01	0.01		07/14/15 14:05	1
Water Temperature	°C	30.5	DEP FT1400	0.1	0.1		07/14/15 14:05	1

Volatiles Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 18:31	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:31	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:31	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
2-Butanone	ug/L	5.5	EPA 8260	4.0	2.0		07/20/15 18:31	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/20/15 18:31	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/20/15 18:31	1
Acetone	ug/L	16	EPA 8260	4.0	2.0		07/20/15 18:31	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/20/15 18:31	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:31	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:31	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 18:31	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:31	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 18:31	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Field Blank2**
 Matrix **Reagent Water**
 SAL Sample Number **1506679-28**
 Date/Time Collected **07/14/15 14:05**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 18:31	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 18:31	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:31	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/20/15 18:31	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/20/15 18:31	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:31	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 18:31	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:31	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/20/15 18:31	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 18:31	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/20/15 18:31	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/20/15 18:31	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 18:31	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 18:31	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	109 %	Limits	65-135				
Surrogate for EPA 8260	4-Bromofluorobenzene	96 %	Limits	65-135				
Surrogate for EPA 8260	Dibromofluoromethane	108 %	Limits	65-135				
Surrogate for EPA 8260	Toluene-d8	97 %	Limits	65-135				

Pesticide Analyses

1,2-Dibromo-3-chloropropane	ug/L	0.0056 u	EPA 8011	0.023	0.0056	07/24/15 16:00	07/25/15 09:29	1
1,2-Dibromoethane	ug/L	0.0056 u	EPA 8011	0.023	0.0056	07/24/15 16:00	07/25/15 09:29	1
Surrogate for EPA 8011	2-Bromo-1-chloropropane	101 %	Limits	82-126				

Inorganics

Ammonia-Unionized as NH3	mg/L	0.01 u	EPA 350.1	0.01	0.01		07/23/15 14:33	1
Biochemical Oxygen Demand	mg/L	2 u	SM 5210B	2	2	07/16/15 07:51	07/21/15 15:21	1
Chemical Oxygen Demand	mg/L	10 u	EPA 410.4	25	10	07/20/15 08:24	07/22/15 14:04	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description **Field Blank2**
 Matrix **Reagent Water**
 SAL Sample Number **1506679-28**
 Date/Time Collected **07/14/15 14:05**
 Collected by **Ian Gerald**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Chlorophyll a, Corrected	ug/L	2.0	SM 10200H	0.50	0.50	07/15/15 09:41	07/21/15 12:45	1
Nitrate (as N)	mg/L	0.02 u	EPA 353.2	0.08	0.02		07/17/15 14:14	1
Nitrate+Nitrite (N)	mg/L	0.01 u	EPA 353.2	0.04	0.01		07/17/15 14:14	1
Nitrite (as N)	mg/L	0.01 u	SM 4500NO2-B	0.04	0.01		07/15/15 10:32	1
Phosphorous - Total as P	mg/L	0.011 l	SM 4500P-E	0.040	0.010	07/17/15 08:19	07/20/15 11:38	1
Total Dissolved Solids	mg/L	72	SM 2540C	10	10	07/17/15 08:41	07/20/15 17:20	1
Total Hardness as CaCO3	mg/L	0.19 u	SM 2340B	3.3	0.19	07/15/15 09:34	07/15/15 15:08	1
Total Kjeldahl Nitrogen	mg/L	0.10 l	EPA 351.2	0.20	0.05	07/17/15 08:19	07/20/15 11:38	1
Total Nitrogen	mg/L	0.10 l	351.2+353.2	0.24	0.06	07/17/15 14:14	07/20/15 11:38	1
Total Organic Carbon	mg/L	3.0	SM 5310B	1.0	0.060		07/21/15 15:44	1
Total Suspended Solids	mg/L	1 u,q	SM 2540D	1	1	07/21/15 09:42	07/22/15 12:13	1

Metals

Antimony	mg/L	0.0070 u	EPA 6010	0.10	0.0070	07/15/15 09:34	07/15/15 15:08	1
Arsenic	mg/L	0.0099 u	EPA 6010	0.010	0.0099	07/15/15 09:34	07/15/15 15:08	1
Barium	mg/L	0.0050 u	EPA 6010	0.10	0.0050	07/15/15 09:34	07/15/15 15:08	1
Beryllium	ug/L	0.45 u	EPA 6010	1.0	0.45	07/15/15 09:34	07/15/15 15:08	1
Cadmium	mg/L	0.0010 u	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 15:08	1
Calcium	mg/L	0.042 u	EPA 200.7	0.50	0.042	07/15/15 09:34	07/15/15 15:08	1
Chromium	mg/L	0.0010 u	EPA 6010	0.010	0.0010	07/15/15 09:34	07/15/15 15:08	1
Cobalt	ug/L	10 u	EPA 6010	100	10	07/15/15 09:34	07/15/15 15:08	1
Copper	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 15:08	1
Iron	ug/L	20 u	EPA 6010	100	20	07/15/15 09:34	07/15/15 15:08	1
Lead	mg/L	0.0060 u	EPA 6010	0.10	0.0060	07/15/15 09:34	07/15/15 15:08	1
Magnesium	mg/L	0.020 u	EPA 200.7	0.50	0.020	07/15/15 09:34	07/15/15 15:08	1
Mercury	ug/L	0.00078	EPA 1631	0.00040	0.00020	07/15/15 13:44	07/16/15 16:58	1
Nickel	mg/L	0.0012 u	EPA 6010	0.010	0.0012	07/15/15 09:34	07/15/15 15:08	1
Selenium	mg/L	0.0080 u	EPA 6010	0.10	0.0080	07/15/15 09:34	07/15/15 15:08	1
Silver	ug/L	1.1 u	EPA 6010	20	1.1	07/15/15 09:34	07/15/15 15:08	1
Thallium	mg/L	0.0050 u	EPA 6010	0.010	0.0050	07/15/15 09:34	07/15/15 15:08	1
Vanadium	ug/L	7.8 u	EPA 6010	10	7.8	07/15/15 09:34	07/15/15 15:08	1
Zinc	mg/L	0.0030 u	EPA 6010	0.010	0.0030	07/15/15 09:34	07/15/15 15:08	1

Microbiology

Fecal Coliforms	CFU/100 ml	1 u	SM 9222D	1	1	07/14/15 17:14	07/15/15 15:31	1
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Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name **LENA RD COUNTY LF**

Sample Description **Trip Blank2**
 Matrix **Reagent Water**
 SAL Sample Number **1506679-29**
 Date/Time Collected **07/10/15 10:30**
 Collected by **Melissa McLaughlin**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
1,1,1-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
1,1,2,2-Tetrachloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
1,1,2-Trichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
1,1-Dichloroethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
1,1-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
1,2,3-Trichloropropane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 19:03	1
1,2-Dichlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 19:03	1
1,2-Dichloroethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 19:03	1
1,2-Dichloropropane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
1,4-Dichlorobenzene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
2-Butanone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 19:03	1
2-Hexanone	ug/L	2.1 u	EPA 8260	4.0	2.1		07/20/15 19:03	1
4-Methyl-2-pentanone	ug/L	2.6 u	EPA 8260	4.0	2.6		07/20/15 19:03	1
Acetone	ug/L	2.0 u	EPA 8260	4.0	2.0		07/20/15 19:03	1
Acrylonitrile	ug/L	1.3 u	EPA 8260	4.0	1.3		07/20/15 19:03	1
Benzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 19:03	1
Bromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 19:03	1
Bromodichloromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
Bromoform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
Bromomethane	ug/L	0.4 u	EPA 8260	0.8	0.4		07/20/15 19:03	1
Carbon disulfide	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
Carbon tetrachloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
Chlorobenzene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 19:03	1
Chloroethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 19:03	1
Chloroform	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
Chloromethane	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 19:03	1
cis-1,2-Dichloroethene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 19:03	1
cis-1,3-Dichloropropene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
Dibromochloromethane	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 19:03	1
Dibromomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
Ethylbenzene	ug/L	0.08 u	EPA 8260	0.8	0.08		07/20/15 19:03	1
Iodomethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

Laboratory Report

Project Name LENA RD COUNTY LF

Sample Description **Trip Blank2**
 Matrix **Reagent Water**
 SAL Sample Number **1506679-29**
 Date/Time Collected **07/10/15 10:30**
 Collected by **Melissa McLaughlin**
 Date/Time Received **07/14/15 17:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Methylene Chloride	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
Styrene	ug/L	0.05 u	EPA 8260	0.8	0.05		07/20/15 19:03	1
Tetrachloroethene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 19:03	1
Toluene	ug/L	0.09 u	EPA 8260	0.8	0.09		07/20/15 19:03	1
trans-1,2-Dichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
trans-1,3-Dichloropropene	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 19:03	1
trans-1,4-Dichloro-2-butene	ug/L	0.3 u	EPA 8260	0.8	0.3		07/20/15 19:03	1
Trichloroethene	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
Trichlorofluoromethane	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
Vinyl acetate	ug/L	0.4 u	EPA 8260	1.6	0.4		07/20/15 19:03	1
Vinyl chloride	ug/L	0.3 u	EPA 8260	1.6	0.3		07/20/15 19:03	1
Xylene-m,p	ug/L	0.2 u	EPA 8260	1.6	0.2		07/20/15 19:03	1
Xylene-o	ug/L	0.2 u	EPA 8260	0.8	0.2		07/20/15 19:03	1
Xylenes- Total	ug/L	0.1 u	EPA 8260	0.8	0.1		07/20/15 19:03	1
Surrogate for EPA 8260	1,2-Dichloroethane-d4	102 %	Limits		65-135			
Surrogate for EPA 8260	4-Bromofluorobenzene	94 %	Limits		65-135			
Surrogate for EPA 8260	Dibromofluoromethane	105 %	Limits		65-135			
Surrogate for EPA 8260	Toluene-d8	96 %	Limits		65-135			

Manatee County Utilities Solid Waste Division
3333 Lena Rd
Bradenton, FL 34211

July 31, 2015
Work Order: 1506679

*** Qualifiers, Notes and Definitions**

Results followed by a "U" indicate that the sample was analyzed but the compound was not detected. Results followed by "I" indicate that the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

A statement of estimated uncertainty of test results is available upon request.

For methods marked with **, all QC criteria have been met for this method which is equivalent to a SAL certified method.

Test results in this report meet all the requirements of the NELAC standards. Any applicable qualifiers are shown below.

- Q Sample held beyond the accepted holding time.
- J5 Matrix spike of this sample was outside typical range. All other QC criteria were acceptable.

Questions regarding this report should be directed to :

Kathryn Nordmark
Telephone (813) 855-1844 FAX (813) 855-2218
Kathryn@southernanalyticallabs.com





SOUTHERN ANALYTICAL LABORATORIES, INC.
 110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

CHAIN OF CUSTODY

Client: Manatee County Utilities Solid Wa: Project Number: 44795 SAL Workorder Number: 1506679
 Project: LENA RD COUNTY LF Project Manager: Bryan White SAL Project Manager: Kathryn Nordmark

Number	Sample Identification	Matrix	Type	Sampled Date/Time	Container	Qty	Analyses
01	BGW-1	Water	Grab	7/14/15 0926	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
02	GW-1	Water	Grab	7/14/15 1029	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
03	GW-2	Water	Grab	7/14/15 1034	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
04	GW-3	Water	Grab	7/14/15 1112	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2

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CHAIN OF CUSTODY

Client: Manatee County Utilities Solid Wa: Project Number: 44795 SAL Workorder Number: 1506679
 Project: LENA RD COUNTY LF Project Manager: Bryan White SAL Project Manager: Kathryn Nordmark

Number	Sample Identification	Matrix	Type	Sampled Date/Time	Container	Qty	Analyses
05	GW-4	Water	Grab	7/14/15 1115	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
06	GW-5	Water	Grab	7/14/15 1205	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
07	GW-6	Water	Grab	7/14/15 1154	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
08	GW-7	Water	Grab	7/14/15 1245	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2

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SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

CHAIN OF CUSTODY

Client: Manatee County Utilities Solid Wa: Project Number: 44795 SAL Workorder Number: 1506679
 Project: LENA RD COUNTY LF Project Manager: Bryan White SAL Project Manager: Kathryn Nordmark

Number	Sample Identification	Matrix	Type	Sampled Date/Time	Container	Qty	Analyses
09	GW-8	Water	Grab	7/14/15 1257	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
10	GW-9	Water	Grab	7/14/15 1314	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
11	GW-10	Water	Grab	7/15/15 0842	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
12	GW-11	Water	Grab	7/15/15 0921	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2

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 Received By: [Signature] Date/Time: 7/13/15 1700



CHAIN OF CUSTODY

SAL Workorder Number: 1506679
SAL Project Manager: Kathryn Nordmark

Project Number: 44795
Project Manager: Bryan White

Client: Manatee County Utilities Solid Wa:
Project: LENA RD COUNTY LF

Number	Sample Identification	Matrix	Type	Sampled Date/Time	Container	Qty	Analyses
13	GW-12	Water	Grab	7/15/15 1009	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
14	GW-13	Water	Grab	7/15/15 1042	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
15	GW-14	Water	Grab	7/15/15 1127	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
16	GW-15	Water	Grab	7/15/15 1158	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2

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SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

CHAIN OF CUSTODY

Client: Manatee County Utilities Solid Wa: Project Number: 44795 SAL Workorder Number: 1506679
 Project: LENA RD COUNTY LF Project Manager: Bryan White SAL Project Manager: Kathryn Nordmark

Number	Sample Identification	Matrix	Type	Sampled Date/Time	Container	Qty	Analyses
17	GW-16	Water	Grab	7/15/15 1244	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
18	GW-17	Water	Grab	7/15/15 1328	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
19	Duplicate Bew-1	Water	Grab	7/14/15 0930	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
20	Field Blank	Water	Field Blank	7/14/15 0853	1 125ml P, H2SO4 1 250ml P, HNO3 3 40ml V, Cool 3 40ml V, HCL 1 500ml P, Cool	9	Ammonia, APP-I Metals-Water, APP-I Volat Chloride 300.0, FE 6010, field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Elev, field-Water Temp, HG 7470, NA 6010, Nitra 353.2 NO2-NO3-NOX, Solids, Total Dissolv (TDS), TN 353.2
21	Trip Blank	Water	Trip Blank		1 40ml V, HCL	1	8260 Appendix I

Relinquished By: WJM 071015/1030 Date/Time: 7/13/15 1700

Received By: [Signature] Date/Time: 7/15/15 1520

Relinquished By: [Signature] Date/Time: 7/15/15 1520

Received By: [Signature] Date/Time: 7/15/15 1520



SOUTHERN ANALYTICAL LABORATORIES, INC.
 110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

CHAIN OF CUSTODY

Client: Manatee County Utilities Solid Wa: Project Number: 44795 SAL Workorder Number: 1506679
 Project: LENA RD COUNTY LF Project Manager: Bryan White SAL Project Manager: Kathryn Nordmark

Number	Sample Identification	Matrix	Type	Sampled Date/Time	Container	Qty	Analyses
22	STORMWATER OVERFLOW @ NORTH WEIR	Water	Grab	7/14/15 1500	1 125ml P, H2SO4 4 125ml P, Sterile 1 1LaP, Cool 1 250mL G LLHG kit 1 250mL P, HNO3 2 40mL aV, HCl 3 40mL V, Cool 3 40mL V, HCL 2 500ml P, Cool	18	APP-I Metals-Water, APP-I Volatiles, BOD, Chlorophyll a, Corrected, COD, FC-MF, FE field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Temp, Hardness-Total, HG 1631, Nitrate 35 NO2-NO3-NOX, Phosphorus Total, Solids, Dissolved (TDS), Solids, Total Suspended (TN 353.2, TOC, Unionized Ammonia as NH
23	Field Blank for SW-1	Water	Field Blank	7/14/15 1505	1 250mL G LLHG kit	1	HG 1631
24	STORMWATER OVERFLOW @ SOUTH WEIR	Water	Grab	7/14/15 1420	4 125ml P, Sterile 1 1LaP, Cool 1 250mL G LLHG kit 1 250mL P, HNO3 2 40mL aV, HCl 3 40mL V, Cool 3 40mL V, HCL 2 500ml P, Cool 1 125ml P, H2SO4	18	APP-I Metals-Water, APP-I Volatiles, BOD, Chlorophyll a, Corrected, COD, FC-MF, FE field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Temp, Hardness-Total, HG 1631, Nitrate 35 NO2-NO3-NOX, Phosphorus Total, Solids, Dissolved (TDS), Solids, Total Suspended (TN 353.2, TOC, Unionized Ammonia as NH
25	Field Blank for SW-2	Water	Field Blank	7/14/15 1425	1 250mL G LLHG kit	1	HG 1631
26	Duplicate North Weir	Water	Grab	7/14/15 1510	1 125ml P, H2SO4 4 125ml P, Sterile 1 1LaP, Cool 1 250mL G LLHG kit 1 250mL P, HNO3 2 40mL aV, HCl 3 40mL V, Cool 3 40mL V, HCL 2 500ml P, Cool	18	APP-I Metals-Water, APP-I Volatiles, BOD, Chlorophyll a, Corrected, COD, FC-MF, FE field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Temp, Hardness-Total, HG 1631, Nitrate 35 NO2-NO3-NOX, Phosphorus Total, Solids, Dissolved (TDS), Solids, Total Suspended (TN 353.2, TOC, Unionized Ammonia as NH

Relinquished By: *[Signature]* Date/Time: 7/14/15 1700
 Relinquished By: *[Signature]* Date/Time: 7/14/15 1700
 Received By: *[Signature]* Date/Time: 7/13/15 1700
 Received By: *[Signature]* Date/Time: 7/13/15 1700



SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

CHAIN OF CUSTODY

Client: Manatee County Utilities Solid Wa:
Project: LENA RD COUNTY LF

Project Number: 44795
Project Manager: Bryan White

SAL Workorder Number: 1506679
SAL Project Manager: Kathryn Nordmark

Number	Sample Identification	Matrix	Type	Sampled Date/Time	Container	Qty	Analyses
27	Field Blank for Duplicate	Water	Field Blank	7/14/15 1515	1 250mL G LLLHG kit	1	HG 1631
28	Field Blank	Water	Field Blank	7/14/15 1405	1 125ml P, H2SO4 4 125mL P, Sterile 1 1LaP, Cool 1 250mL G LLLHG kit 1 250mL P, HNO3 2 40mL aV, HCl 3 40ml V, Cool 3 40mL V, HCL 2 500ml P, Cool 1 40mL V, HCL	18	APP-I Metals-Water, APP-I Volatiles, BOD, Chlorophyll a, Corrected, COD, FC-MF, FE field-color, field-conductivity, field-Dissolved Oxygen, field-pH, field-Turbidity, field-Water Temp, Hardness-Total, HG 1631, Nitrate 35 NO2-NO3-NOX, Phosphorus Total, Solids, Dissolved (TDS), Solids, Total Suspended (TN 353.2, TOC, Unionized Ammonia as NH
29	Trip Blank	Water	Trip Blank			1	8260 Appendix I

Relinquished By: [Signature] Date/Time: 7/13/15 1700
 Relinquished By: [Signature] Date/Time: 7/24/15 1700
 Received By: [Signature] Date/Time: 7/13/15 1700
 Received By: [Signature] Date/Time: 7/24/15 1700

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	7/14/15	SAL WO#	1506679	Phone:	(941) 748-5543
Well Number:	BGW-1 21610	Sample ID	1506679-01	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)		WELL CAPACITY (gal/ft)		Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	11.20 12	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.3	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.49	1/4 WELL VOLUME	0.37	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	0913	PURGE TIME END	0925
				TOTAL PURGED (gallons)			3.0

INSTRUMENT ID#:									

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0919	1.50	1.50	.25		5.97	26.2	547	0.83	1.00	fannic	sulphur
0922	0.75	0.25			5.93	26.1	536	0.70	0.59		
0925	0.75	3.00			5.91	26.1	528	0.58	0.56		

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	.25						
SAMPLING INITIATED	0926	SAMPLING ENDED	0929	FIELD CLEANED	Y N	CLEANING STEPS					
FIELD FILTERED?	Y N	FILTER SIZE (um)		DUPLICATE	N	VOC COLLECTED BY REVERSE FLOW?	Y N N	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N		
PRESERVATION CHECKED IN FIELD?	N N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Clear 85°										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: Z					

DATE SIGNED: *[Signature]* 7/14/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	7/14/15	SAL WO#	1506679	Phone:	(941) 748-5543
Well Number:	GW-1 21593	Sample ID	1506679-02	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	10.03	PURGE PUMP CODE	GP
Total Well Depth (Feet)	19.42	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.5324	1/4 WELL VOLUME	.3831	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1015	PURGE TIME END	1028	TOTAL PURGED (gallons)	3.25

INSTRUMENT ID#:					4588601			TURB	
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TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1022	1.75	1.75	.15		6.90	25.5	791	.83	7.14	clear	none
1025	.75	2.50	↓		6.69	25.5	799	.72	5.22	↓	↓
1028	.75	3.25	↓		6.68	25.5	805	.68	4.13	↓	↓

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	
SAMPLING INITIATED	1029	SAMPLING ENDED	1036	FIELD CLEANED	Y N
FIELD FILTERED?	Y	FILTER SIZE (um)		DUPLICATE	Y N
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED		VOC COLLECTED BY REVERSE FLOW?	Y N

WEATHER CONDITIONS	Overcast 88°F
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COMMENTS	
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SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.	Sampler's Initials:	JL
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DATE SIGNED: 7/14/15
 SAMPLER'S SIGNATURE: [Signature]

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/14/15	SAL WO#	1506679	Location:	
Well Number:	GW2 21594	Sample ID	1506679-03	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	12.40	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	19.41	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.14	1/4 WELL VOLUME	0.29	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1021	PURGE TIME END	1033	TOTAL PURGED (gallons)	2.4

INSTRUMENT ID#:				YS1002				Turbid	
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TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1027	1.2	1.2	1.2		6.33	28.0	767	0.65	31.3	fannic	su/phiw
1030	0.6	1.8	1		6.34	28.2	784	1.52	6.39	1	1
1033	0.6	2.4	1		6.37	28.1	798	0.71	6.89	1	1

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	PP PE NP TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	12			
SAMPLING INITIATED	1034	SAMPLING ENDED	1036	FIELD CLEANED	Y <input checked="" type="checkbox"/>	CLEANING STEPS			
FIELD FILTERED?	Y <input checked="" type="checkbox"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="checkbox"/>	VOC COLLECTED BY REVERSE FLOW?	Y N N/A	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N <input checked="" type="checkbox"/>
PRESERVATION CHECKED IN FIELD?	<input checked="" type="checkbox"/> N N/A	LIST PRESERVATIVES ADDED							

WEATHER CONDITIONS	overcast 86°F
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COMMENTS	
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SAMPLED BY/COMPANY: Southern Analytical Laboratories, Inc. Sampler's Initials: *WJ*

DATE SIGNED: 7/14/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	7/14/15	SAL WO#	1506679	Phone:	(941) 748-5543
Well Number:	GW-3 21595	Sample ID	1506679-04	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	5.05	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	19.56	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	2.3680	1/4 WELL VOLUME	.5920	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1055	PURGE TIME END	1111	TOTAL PURGED (gallons)	40
INSTRUMENT ID#:					YS2001				

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1105	.75	2.5	.75		6.31	27.0	631	.89	3.42	Minic	None
1108	.75	3.25	↓		6.29	27.0	625	.93	2.43	large part. des	↓
1111	.75	4.0	↓		6.28	26.9	622	.70	1.21	iron bacteria	↓

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)							
SAMPLING INITIATED	1112	SAMPLING ENDED	1120	FIELD CLEANED	Y (N)	CLEANING STEPS					
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)		
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	OVERCAST										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials:	TB				

DATE SIGNED:

7/14/15

SAMPLER'S SIGNATURE:

[Signature]

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/14/15	SAL WO#	1506679	Location:	
Well Number:	GW-4 21596	Sample ID	1506679-05	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	7.00	PURGE PUMP CODE	GP	IBP	
Total Well Depth (Feet)	19.63	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)			
Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)											
WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =											
ONE WELL VOLUME	2.06	1/4 WELL VOLUME	0.52	3 WELL VOLUMES		5 WELL VOLUMES					
EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME											
PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME					
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1057	PURGE TIME END	1114	TOTAL PURGED (gallons)	3.4		
INSTRUMENT ID#:				YSI 9002				Turby			
TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (oC) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
1108	2.2	2.2	.2		6.01	26.2	346.3	0.59	14.4	faint	none
1111	0.6	2.8			6.00	26.1	341.1	0.49	13.4		
1114	0.6	3.4			5.99	26.1	339.7	0.44	11.9		
Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump										
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon										
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	NP	TL	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	.2			
SAMPLING INITIATED	1115	SAMPLING ENDED	1118	FIELD CLEANED	Y <input checked="" type="checkbox"/>	CLEANING STEPS				
FIELD FILTERED?	Y <input checked="" type="checkbox"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="checkbox"/>	VOC COLLECTED BY REVERSE FLOW?	Y N <input checked="" type="checkbox"/>	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N <input checked="" type="checkbox"/>	
PRESERVATION CHECKED IN FIELD?	<input checked="" type="checkbox"/>	N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Overcast 85°F									
COMMENTS										
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: <i>eh</i>				

DATE SIGNED: 7/14/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/19/13	SAL WO#	1506679	Location:	
Well Number:	GW-5 21597	Sample ID	1506679-06	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	1637	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	6.96	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	19.66	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	2.0726	1/4 WELL VOLUME	.5181	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1150	PURGE TIME END	1205	TOTAL PURGED (gallons)	3.75
INSTRUMENT ID#:				YS9001	→		14291		

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1159	2.75	2.75	.75		6.13	27.1	721	.75	3.87	tannic	5440
1202	.75	3.0	↓		6.21	27.2	727	.61	2.92	↓	↓
1205	.75	3.75	↓		6.20	27.2	733	.54	2.47	↓	↓

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <input checked="" type="radio"/> TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)							
SAMPLING INITIATED	1206	SAMPLING ENDED		FIELD CLEANED	Y <input checked="" type="radio"/>	CLEANING STEPS					
FIELD FILTERED?	Y <input checked="" type="radio"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="radio"/>	VOC COLLECTED BY REVERSE FLOW?	Y N <input checked="" type="radio"/>	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N <input checked="" type="radio"/>		
PRESERVATION CHECKED IN FIELD?	<input checked="" type="radio"/> N N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Overcast										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials:	sb				

DATE SIGNED: 7/19/13
 SAMPLER'S SIGNATURE: [Signature]

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/14/15	SAL WO#	1506679	Location:	
Well Number:	GW-6/21598	Sample ID	1506679-07	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	6.80	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	19.54	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	2.08	1/4 WELL VOLUME	0.52	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1136	PURGE TIME END	1153	TOTAL PURGED (gallons)	3.4
INSTRUMENT ID#:				YS18202				TURBY	

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1147	2.2	2.2	.2		6.43	27.2	1386	0.30	4.04	faint	none
1150	0.6	2.8			6.42	27.2	1378	0.24	2.26		
1153	0.6	3.4			6.40	27.2	1344	0.22	1.53		

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	.2						
SAMPLING INITIATED	1154	SAMPLING ENDED	1157	FIELD CLEANED	Y (N)	CLEANING STEPS					
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N N/A	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A		
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Overcast 85°F										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: <i>ch</i>					

DATE SIGNED: 7/14/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	7/14/15	SAL WO#	1506679	Phone:	(941) 748-5543
Well Number:	GW-7 21599	Sample ID	1506679-08	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	8.69	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.54	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.9339	1/4 WELL VOLUME	.4834	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1230	PURGE TIME END	1244	TOTAL PURGED (gallons)	3.50
INSTRUMENT ID#:				4558201					

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (oC) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
1238	2.0	2.0	.25		6.41	26.9	596	1.36	3.76	haznic	sulfur
1241	.75	2.75	↓		6.39	26.8	588	1.22	3.41	↓	↓
1244	.75	3.50	↓		6.39	26.8	583	1.09	3.24	↓	↓

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <input checked="" type="radio"/> TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)							
SAMPLING INITIATED	1245	SAMPLING ENDED	1252	FIELD CLEANED	Y <input checked="" type="radio"/> N	CLEANING STEPS					
FIELD FILTERED?	Y <input checked="" type="radio"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="radio"/> N	VOC COLLECTED BY REVERSE FLOW?	Y N <input checked="" type="radio"/>	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N <input checked="" type="radio"/>		
PRESERVATION CHECKED IN FIELD?	<input checked="" type="radio"/> N N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Overcast										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: JB					

DATE SIGNED:

7/14/15

SAMPLER'S SIGNATURE:

[Signature]

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/14/15	SAL WO#	1506679	Location:	
Well Number:	GW-8 21600	Sample ID	1506679-09	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	10.05	PURGE PUMP CODE	PP GP IBP
Total Well Depth (Feet)	20.32	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.68	1/4 WELL VOLUME	0.42	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1241	PURGE TIME END	1256	TOTAL PURGED (gallons)	3.0

INSTRUMENT ID#:					YSI 6002			Turbid	
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TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1250	1.8	1.8	0.2		6.42	27.2	605	0.33	6.87	fannic	none
1253	0.6	2.4			6.42	27.2	612	0.43	5.31		
1256	0.6	3.0			6.42	27.1	620	0.26	4.32		

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	
SAMPLING INITIATED	1257	SAMPLING ENDED	1300	FIELD CLEANED	Y (N)
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)
PRESERVATION CHECKED IN FIELD?	Y (N) N/A	LIST PRESERVATIVES ADDED		VOC COLLECTED BY REVERSE FLOW?	Y N N/A
				SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A

WEATHER CONDITIONS	Overcast 96°
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COMMENTS	
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SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.	Sampler's Initials:	Z
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DATE SIGNED: 7/14/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	7/14/05	SAL WO#	1506679	Phone:	(941) 748-5543
Well Number:	GW-9 21601	Sample ID	1506679-10	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2"	WELL CAPACITY (gal/ft)	.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	10.92	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.56	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.6058	1/4 WELL VOLUME	.4014	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1300	PURGE TIME END	1313	TOTAL PURGED (gallons)	3.25

INSTRUMENT ID#:	YS11001 - 7 TUES 1								
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TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (°C) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1309	.75	1.75	.75		6.67	28.1	501	.74	10.3	large particles	sulfur
1310	.75	2.50	↓		6.64	28.2	493	.68	6.71	↓	↓
1313	.75	3.25	↓		6.63	28.2	489	.66	2.71	↓	↓

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	NP	TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)					
SAMPLING INITIATED	1314	SAMPLING ENDED	1320	FIELD CLEANED	Y	CLEANING STEPS					
FIELD FILTERED?	Y	FILTER SIZE (um)		DUPLICATE	Y	VOC COLLECTED BY REVERSE FLOW?	Y N	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N		
PRESERVATION CHECKED IN FIELD?		N N/A		LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Drizzle										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials:	JB				

DATE SIGNED: 7/14/05
 SAMPLER'S SIGNATURE: [Signature]

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	7/15/15	SAL WO#	1506679	Phone:	(941) 748-5543
Well Number:	GW-10 21602	Sample ID	1506679-11	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	9.25	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.15	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.78	1/4 WELL VOLUME	0.44	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	0826	PURGE TIME END	0841	TOTAL PURGED (gallons)	3.6

INSTRUMENT ID#:					YS1PR02				JV-64
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TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0835	1.8	1.8	.2		6.58	28.5	637	1.89	20.4	tanish	none
0838	0.6	2.4			6.59	28.4	633	1.67	16.4		
0841	0.6	3.0			6.59	28.4	631	1.32	17.5		

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	.2						
SAMPLING INITIATED	0842	SAMPLING ENDED	0845	FIELD CLEANED	Y (N)	CLEANING STEPS					
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)		
PRESERVATION CHECKED IN FIELD?	Q N N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Clear 82°F										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: <i>SW</i>					

DATE SIGNED: 7/15/15

SAMPLER'S SIGNATURE: *SW*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/15/05	SAL WO#	1506679	Location:	
Well Number:	GW-11 21603	Sample ID	1506679-12	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	7.68	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	21.61	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	2.27	1/4 WELL VOLUME	0.57	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	0902	PURGE TIME END	0920	TOTAL PURGED (gallons)	3.6
INSTRUMENT ID#:				YSIP02				Turbid	

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (°C) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0914	2.4	2.4	.2	6.32	28.1	520	0.28	1.49	faint	none	
0917	0.6	3.0		6.32	28.0	525	0.26	1.49			
0920	0.6	3.6		6.31	28.0	524	0.23	1.48			

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	NP	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	.2					
SAMPLING INITIATED	0921	SAMPLING ENDED	0924	FIELD CLEANED	Y (N)	CLEANING STEPS					
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y (N) N/A	SEMI-VOLS COLLECTED THROUGH TRAP?	Y (N) N/A		
PRESERVATION CHECKED IN FIELD?	Y (N) N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Clear	83°F									
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: Z					

DATE SIGNED: 7/15/05

SAMPLER'S SIGNATURE: [Signature]

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/15/15	SAL WO#	1506679	Location:	
Well Number:	GW-12 21604	Sample ID	1506679-13	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	10.40	PURGE PUMP CODE	GP	IBP
Total Well Depth (Feet)	20.27	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)		

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1661	1/4 WELL VOLUME	0.40	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	0953	PURGE TIME END	1008	TOTAL PURGED (gallons)	3.0
INSTRUMENT ID#:				YSI 902				Turbid	

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (°C) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1002	1.8	1.8	2		6.25	26.1	754	0.28	2.14	faint	none
1005	0.6	2.4	1		6.25	26.1	752	0.28	2.30		
1008	0.6	3.0	1		6.24	26.1	747	0.24	2.61		

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	.2						
SAMPLING INITIATED	1009	SAMPLING ENDED	1012	FIELD CLEANED	Y (N)	CLEANING STEPS					
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)		
PRESERVATION CHECKED IN FIELD?	Y N (N/A)	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Overcast 84°										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: <i>dy</i>					

DATE SIGNED: 7/15/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/15/15	SAL WO#	1506679	Location:	
Well Number:	GW-13/21605	Sample ID	1506679-14	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	10.51	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.22	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.58	1/4 WELL VOLUME	0.40	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1027	PURGE TIME END	1041	TOTAL PURGED (gallons)	2.8

INSTRUMENT ID#:	YS1162				Turby			
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TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1035	1.6	1.6	.2		6.48	25.1	1143	0.23	2.81	ferric	None
1038	0.6	2.2			6.48	25.0	1161	0.44	3.33		
1041	0.6	2.8			6.48	25.1	1150	0.87	4.21		

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	.2						
SAMPLING INITIATED	1042	SAMPLING ENDED	1045	FIELD CLEANED	Y (N)	CLEANING STEPS					
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)		
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Overcast/rain 84°F										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: J					

DATE SIGNED: 7/15/15

SAMPLER'S SIGNATURE: [Signature]

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White
Date Sampled:	7/15/15	SAL WO#	1506679	Phone:	(941) 748-5543
Well Number:	GW-14 21606	Sample ID	1506679-15	Location:	
				GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	11632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	5.85	PURGE PUMP CODE	GP
Total Well Depth (Feet)	20.15	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	IBP

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	2.33	1/4 WELL VOLUME	0.58	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1108	PURGE TIME END	1126
INSTRUMENT ID#:							3.6

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) ($\Delta < 0.2$)	TEMP (oC) ($\Delta < 0.2$)	SPECIFIC COND (uS/cm) ($\Delta < 5\%$)	DO (mg/L) (% SAT < 20)	TURBIDITY (NTUs) (< 20 NTU)	COLOR (Describe)	ODOR (Describe)
1120	2.4	2.4	1.2		6.42	26.9	1514	0.31	12.9	fannic	none
1123	0.6	3.0	1		6.42	26.7	1539	0.26	1.69	1	1
1126	0.6	3.6	1		6.42	26.8	1554	0.23	1.63	1	1

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon

TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	1.2
SAMPLING INITIATED	1127	SAMPLING ENDED	1130	FIELD CLEANED	Y (N)
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)
PRESERVATION CHECKED IN FIELD?	Y (N) N/A	LIST PRESERVATIVES ADDED		VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
				SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)

WEATHER CONDITIONS	Clear 86°
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COMMENTS	
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SAMPLED BY/COMPANY: Southern Analytical Laboratories, Inc. Sampler's Initials: YJ

DATE SIGNED: 7/15/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/15/15	SAL WO#	1506679	Location:	
Well Number:	GW-15 21607	Sample ID	1506679-16	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	7.85	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.00	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.98	1/4 WELL VOLUME	0.50	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1141	PURGE TIME END	1157	TOTAL PURGED (gallons)	3.2

INSTRUMENT ID#:					YS1P2					
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TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1151	2.0	2.0	.2		6.14	26.3	825	0.16	1.57	faint	none
1154	0.6	2.6	1		6.13	26.3	817	0.16	1.45	1	1
1157	0.6	3.2	1		6.12	26.2	813	0.13	1.37		

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <u>TL</u> TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)							12
SAMPLING INITIATED	1158	SAMPLING ENDED	1201	FIELD CLEANED	Y <u>N</u>	CLEANING STEPS					
FIELD FILTERED?	Y <u>N</u>	FILTER SIZE (um)		DUPLICATE	Y <u>N</u>	VOC COLLECTED BY REVERSE FLOW?	Y N <u>N/A</u>	SEMI-VOLS COLLECTED THROUGH TRAP?		Y N <u>N/A</u>	
PRESERVATION CHECKED IN FIELD?		<u>N</u> N/A	LIST PRESERVATIVES ADDED								
WEATHER CONDITIONS	Clear 87°F										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: <u>AW</u>					

DATE SIGNED: 7/15/15
 SAMPLER'S SIGNATURE: [Signature]

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/15/15	SAL WO#	1506679	Location:	
Well Number:	GW-16 21608	Sample ID	1506679-17	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	11632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	10.43	PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.15	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.59	1/4 WELL VOLUME	0.40	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1223	PURGE TIME END	1243	TOTAL PURGED (gallons)	4.0

INSTRUMENT ID#:					YSI Pro2			Turbid	
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TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1231	1.6	1.6	2		5.92	27.3	482	0.45	91.7	fair	none
1234	0.6	2.2			6.01	27.3	460	0.30	71.7		
1237	0.6	2.8			6.05	27.2	442	0.24	53.0		
1240	0.6	3.4			6.11	27.2	434	0.20	39.0		
1243	0.6	4.0			6.13	27.1	431	0.19	33.0		

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP <input checked="" type="radio"/> TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)							2
SAMPLING INITIATED	1244	SAMPLING ENDED	1247	FIELD CLEANED	Y <input checked="" type="radio"/>	CLEANING STEPS					
FIELD FILTERED?	Y <input checked="" type="radio"/>	FILTER SIZE (um)		DUPLICATE	Y <input checked="" type="radio"/>	VOC COLLECTED BY REVERSE FLOW?	Y N <input checked="" type="radio"/>	SEMI-VOLS COLLECTED THROUGH TRAP?		Y N <input checked="" type="radio"/>	
PRESERVATION CHECKED IN FIELD?	<input checked="" type="radio"/> N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Clear 89°F										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: <i>W</i>					

DATE SIGNED: 7/15/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/15/15	SAL WO#	1506679	Location:	
Well Number:	GW-17 21609	Sample ID	1506679-18	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)	2.0	WELL CAPACITY (gal/ft)	1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	8.0	PURGE PUMP CODE	PP/GP IBP
Total Well Depth (Feet)	20.8	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	2.09	1/4 WELL VOLUME	0.52	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	1307	PURGE TIME END	1324	TOTAL PURGED (gallons)	3.4
INSTRUMENT ID#:				YS1P02				Turbid	

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1318	2.2	2.2	.2		5.14	26.6	196.4	0.17	4.83	faint	none
1321	0.6	2.8	1		5.12	26.6	189.2	0.17	4.91	1	1
1324	0.6	3.4	1		5.13		172.5	0.16	4.94	1	1

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)							1.2
SAMPLING INITIATED	1325	SAMPLING ENDED	1328	FIELD CLEANED	Y (N)	CLEANING STEPS					
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N N/A	SEMI-VOLS COLLECTED THROUGH TRAP?		Y N N/A	
PRESERVATION CHECKED IN FIELD?		LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	clear 90°p										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials:	g				

DATE SIGNED: 7/15/15

SAMPLER'S SIGNATURE:

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/14/15	SAL WO#	1506679	Location:	
Well Number:	Duplicate BGW-1	Sample ID	1506679-19	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)		WELL CAPACITY (gal/ft)		Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)		PURGE PUMP CODE	GP IBP
Total Well Depth (Feet)	20.3	REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1.49	1/4 WELL VOLUME	0.37	3 WELL VOLUMES		5 WELL VOLUMES	
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LENGTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LENGTH IN WELL (FEET)		FINAL TUBING LENGTH IN WELL (FEET)		PURGE TIME START	0913	PURGE TIME END	0925	TOTAL PURGED (gallons)	3.0
INSTRUMENT ID#:				YsiPlot				Turb	

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0919	1.50	6.50	.25		5.97	26.2	547	0.83	1.00	ferric	su/plur
0922	0.75	2.25	1		5.93	26.1	536	0.70	0.54	1	1
0925	0.75	3.00	1		5.91	26.1	528	0.58	0.56	1	1

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TT	NP (1)	SAMPLE TUBING LENGTH IN WELL (FEET)		SAMPLE PUMP FLOW RATE (gpm)	1.25					
SAMPLING INITIATED	0930	SAMPLING ENDED	0933	FIELD CLEANED	Y (N)	CLEANING STEPS					
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)		
PRESERVATION CHECKED IN FIELD?	Y (N) N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Clear 83°F										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: Y					

DATE SIGNED: 7/14/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 (813) 855-1844 fax (813) 855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Manatee County Utilities Solid Waste Division	Project Name:	LENA RD COUNTY LF	Contact:	Bryan White (941) 748-5543
Date Sampled:	7/14/15	SAL WO#	1506679	Location:	
Well Number:	Field Blank	Sample ID	1506679-20	GPS LAT	
				GPS LONG	

PURGING DATA

Well Diameter (inches)		WELL CAPACITY (gal/ft)		Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)		PURGE PUMP CODE	PP GP IBP
Total Well Depth (Feet)		REFERENCE ELEVATION (NGVD)		GROUND WATER ELEVATION (REFERENCE-STATIC)		TUBING DIAMETER (inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume,3,3 Minutes) q Partially Submerged Screen (1 Well,3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPACITY =

ONE WELL VOLUME	1/4 WELL VOLUME	3 WELL VOLUMES	5 WELL VOLUMES
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EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

PUMP VOLUME	TUBING LENGTH	FLOW CELL VOLUME	EQUIPMENT VOLUME
INITIAL TUBING LENGTH IN WELL (FEET)	FINAL TUBING LENGTH IN WELL (FEET)	PURGE TIME START	PURGE TIME END
INSTRUMENT ID#:			

Ys: P201 Turbi

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ<0.2)	TEMP (oC) (Δ<0.2)	SPECIFIC COND (uS/cm) (Δ<5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0852	-	-	-	-	8.34	23.8	6.0	2.43	0.08	clear	none

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"=5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfor Pump, IBP= In-place Bladder Pump											
TUBING MATERIAL CODES: PP= Polypropylene, PE = Polyethylene, NP=Non-inert Plastic, TL= Teflon Lined, TT= Teflon											
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LENGTH IN WELL (FEET)	SAMPLE PUMP FLOW RATE (gpm)								
SAMPLING INITIATED	0853	SAMPLING ENDED	0856	FIELD CLEANED	(Y) N	CLEANING STEPS	DEP SOP				
FIELD FILTERED?	Y (N)	FILTER SIZE (um)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)		
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED									
WEATHER CONDITIONS	Clear 85°F										
COMMENTS											
SAMPLED BY/COMPANY:	Southern Analytical Laboratories, Inc.					Sampler's Initials: <i>W</i>					

DATE SIGNED: 7/14/15

SAMPLER'S SIGNATURE: *[Signature]*

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Date: 7/14/15

Client Name: <i>Manatee Co. Long Landfill</i>		Site: <i>stormwater overbank</i>		Client Contact Phone:	
Surface Water Description:		Location: <i>North Weir</i>		GPS Long.	
Sample ID: <i>1506679-22</i>		Coordinates: Lat.			

Sampling Data

Sampled By: <i>Jan Corraldi / Eric Glass</i>		Sampler Signature: <i>[Signature]</i>	
Affiliation: Southern Analytical Laboratories		Sampling Initiated At: <i>1500</i>	
Sampling Device: SAL-SAM-		Sampling location relative to shore: <i>mid</i>	
Method of approach (wading, boat, overhang, etc.):		<i>shoreline</i>	
Depth of sample (ft.):		<i>.1</i>	
Est. Flow Rate (if applicable):		<i>low</i>	
		Meter IDs:	
pH	<i>6.92</i>	SAL-SAM-63 <i>Ysipnoi 7</i> SAL-SAM-55 SAL-SAM-55 SAL-SAM- <i>7urb1</i>	
Specific Conductance (umhos)	<i>490</i>		
Temperature (°C)	<i>26.4</i>		
Dissolved Oxygen (mg/L)	<i>2.94</i>		
Turbidity (NTU)	<i>16.1</i>		
Sample Appearance	<i>fancy</i>		
Sample Odor	<i>none</i>		
Field Decontamination: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	Field Filtered: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	Duplicate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Preservation Checked in the field? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Initials: <i>[Signature]</i>	Date: <i>7/14/15</i>	

Site and Weather Conditions

Overcast 86° F

Comments (use back of form if necessary)

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Date: 7/14/15

Manatee Co:

Surface Water Sampling Log

Client Name: <u>Lena Landfill</u>	Site Location: <u>Stormwater overflow @ South Weir</u>	Client Contact Phone:
Surface Water Description:	Sample ID: <u>1506679-24</u>	GPS Coordinates: Long. Lat.

Sampling Data

Sampled By: <u>Ian Gerald/Eric Glass</u>	Sampler Signature: <u>[Signature]</u>	
Affiliation: Southern Analytical Laboratories	Sampling Initiated At: <u>1420</u>	
Sampling Device: SAL-SAM-	Sampling location relative to shore: <u>mid</u>	
Method of approach (wading, boat, overhang, etc.): <u>doch</u>	Depth of sample (ft.): <u>1</u>	
Est. Flow Rate (if applicable): <u>none</u>		
		Meter IDs:
pH: <u>6.96</u>		SAL-SAM-63
Specific Conductance (umhos): <u>368</u>		<u>Ysi Pro1 7</u>
Temperature (°C): <u>27.1</u>		SAL-SAM-55
Dissolved Oxygen (mg/L): <u>1.46</u>		SAL-SAM-55
Turbidity (NTU): <u>19.1</u>		SAL-SAM-Turb
Sample Appearance:		
Sample Odor:		
Field Decontamination: Y <input checked="" type="radio"/> N	Field Filtered: Y <input checked="" type="radio"/> N	Duplicate: Y <input checked="" type="radio"/> N
Preservation Checked in the field? <input checked="" type="radio"/> N NA	Initials: <u>[Signature]</u>	Date: <u>7/14/15</u>
Site and Weather Conditions		
<u>Overcast 86°F</u>		

Comments (use back of form if necessary)

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Date: 7/14/15

Manatee Co.

Surface Water Sampling Log

Client Name: Lena Landfill	Site Location: DUP Stormwater overflow @ North Weir	Client Contact Phone:
Surface Water Description:	Sample ID: 1506679-26	GPS Coordinates: Long. Lat.

Sampling Data

Sampled By: an Gaudin/Eric Glass	Sampler Signature: [Signature]
Affiliation: Southern Analytical Laboratories	Sampling Initiated At: 1510
Sampling Device: SAL-SAM-	
Sampling location relative to shore	
Method of approach (wading, boat, overhang, etc.)	
Depth of sample (ft.)	
Est. Flow Rate (if applicable)	
	Meter IDs:
pH: 6.92	SAL-SAM-63
Specific Conductance (umhos): 490	YSIP2017
Temperature (°C): 26.4	SAL-SAM-55
Dissolved Oxygen (mg/L): 2.94	SAL-SAM-55
Turbidity (NTU): 16.1	SAL-SAM-Turbid
Sample Appearance: tannic	
Sample Odor: none	
Field Decontamination: Y N	Field Filtered: Y N Duplicate: <input checked="" type="checkbox"/> N
Preservation Checked in the field? <input checked="" type="checkbox"/> ON NA	Initials: [Signature] Date: 7/14/15

Site and Weather Conditions

overcast 86°F

Comments (use back of form if necessary)

Duplicate
North Weir

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Date: 7/14/15

Surface Water Sampling Log

Client Name: <u>Manatee Co</u>	Site Location: <u>South</u>	Client Contact Phone:
Surface Water Description:	Sample ID: <u>1506679-28</u>	GPS Coordinates: Long. Lat.

Sampling Data

Sampled By/ Affiliation: <u>EW GERRARD / Eric Glass</u> Southern Analytical Laboratories	Sampler Signature: <u>[Signature]</u>	
Sampling Device: <u>SAL-SAM-</u>	Sampling Initiated At: <u>1405</u>	
Sampling location relative to shore	<u>117</u>	
Method of approach (wading, boat, overhang, etc.)	<u>Rock</u>	
Depth of sample (ft.)	<u>1</u>	
Est. Flow Rate (if applicable)	<u>No</u>	
		Meter IDs:
pH	<u>8.51</u>	SAL-SAM-63
Specific Conductance (umhos)	<u>8.8</u>	
Temperature (°C)	<u>30.5</u>	SAL-SAM-55 <u>YSTR01</u>
Dissolved Oxygen (mg/L)	<u>1.30</u>	SAL-SAM-55
Turbidity (NTU)	<u>.24</u>	SAL-SAM- <u>TURB1</u>
Sample Appearance	<u>clear</u>	
Sample Odor	<u>none</u>	
Field Decontamination: <u>Y</u> <input checked="" type="checkbox"/> <u>N</u> <input type="checkbox"/>	Field Filtered: <u>Y</u> <input type="checkbox"/> <u>N</u> <input checked="" type="checkbox"/>	Duplicate: <u>Y</u> <input type="checkbox"/> <u>N</u> <input type="checkbox"/>
Preservation Checked in the field? <input checked="" type="checkbox"/> <u>N</u> <input type="checkbox"/> <u>NA</u>	Initials: <u>EG</u>	Date: <u>7/14/15</u>
Site and Weather Conditions		
<u>Rain Overcast 86°</u>		

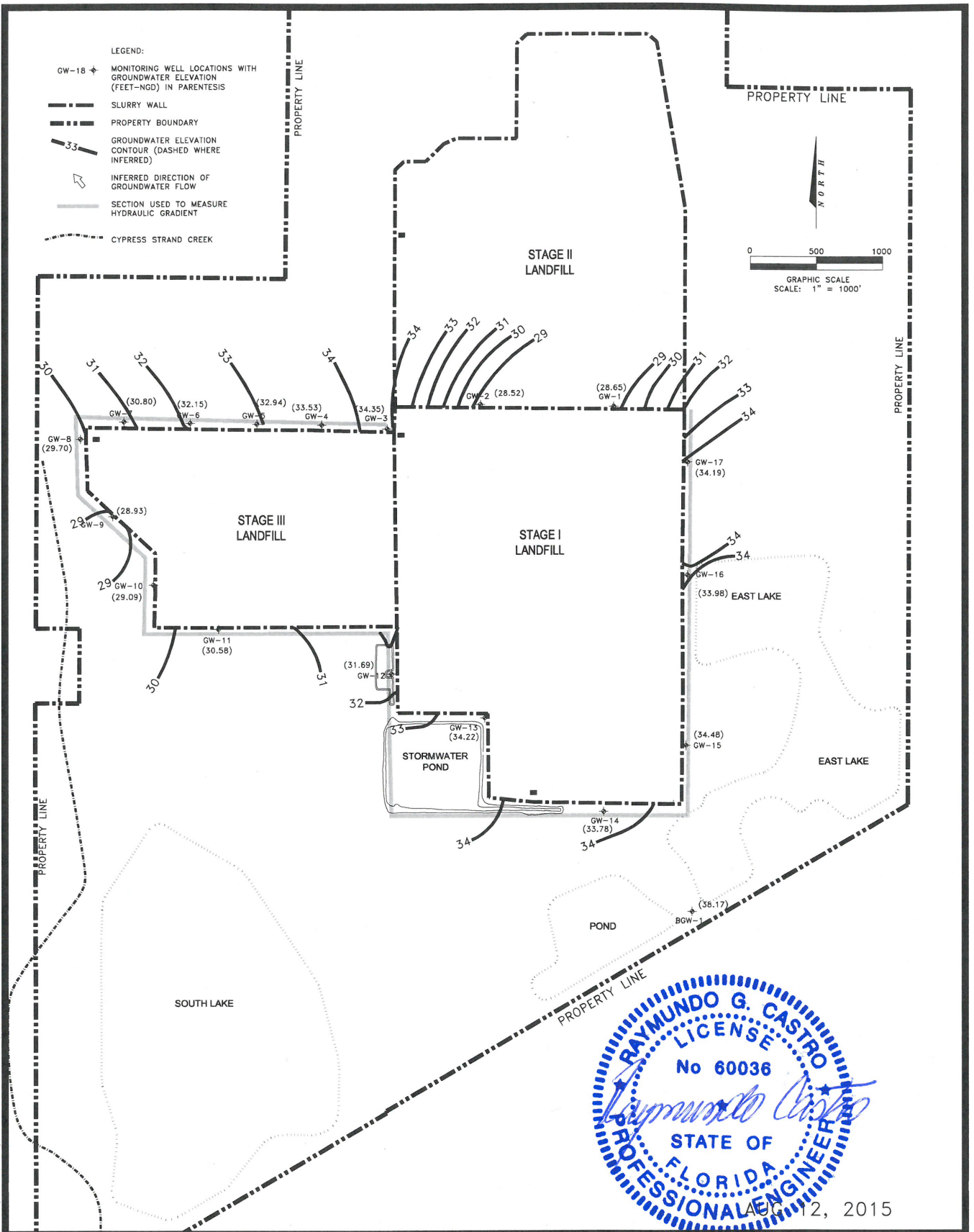
Comments (use back of form if necessary)

Table 3
Groundwater Elevation Data
Lena Road Landfill
Second Half 2015

Well Identifier	Top-of-Casing Elevation (Ft-NGVD)	Total Depth (Ft-TOC)	Top of Well Screen Elevation (Ft-NGVD)	Bottom of Well Screen Elevation (Ft-NGVD)	Depth to Groundwater (Ft below TOC)	Groundwater Elevation (Ft-NGVD)
GW-1	38.68	19.42	34.76	19.26	10.03	28.65
GW-2	40.92	19.41	37.01	21.51	12.40	28.52
GW-3	39.40	19.56	35.34	19.84	5.05	34.35
GW-4	40.53	19.63	36.40	20.90	7.00	33.53
GW-5	39.90	19.66	35.74	20.24	6.96	32.94
GW-6	38.95	19.54	34.91	19.41	6.80	32.15
GW-7	39.49	20.54	34.45	18.95	8.69	30.80
GW-8	39.75	20.32	34.93	19.43	10.05	29.70
GW-9	39.65	20.56	34.59	19.09	10.72	28.93
GW-10	38.34	20.15	33.69	18.19	9.25	29.09
GW-11	38.26	21.61	31.65	16.65	7.68	30.58
GW-12	42.09	20.27	37.32	21.82	10.40	31.69
GW-13	44.79	20.22	40.07	24.57	10.57	34.22
GW-14	39.63	20.15	34.98	19.48	5.85	33.78
GW-15	42.33	20.00	37.83	22.33	7.85	34.48
GW-16	44.41	20.15	39.76	24.26	10.43	33.98
GW-17	42.19	20.80	36.89	21.39	8.00	34.19
BGW-1	47.57	20.30	42.77	27.27	NA	NA

* Survey data not available at the date of issuance of this report.

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ATKINS	LENA ROAD LANDFILL MANATEE COUNTY, FLORIDA	GROUNDWATER ELEVATION CONTOUR MAP SECOND HALF 2015	FIG. 8
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